

SDS Report

Sample Description

Silicon dioxide



Statement

1. The conclusion of the certificate/report is responsible for the provided sample only.
2. The applicant shall provide accurately and truly the description and statement of the sample, shall guarantee to match the sample and real situation which they provided and declared. Otherwise the application shall bear any relevant consequences and responsibility.
3. In case the sample and documents provided involved in the situation of fake and forgery, any consequences and responsibility caused by this shall be undertaken by applicant.

4. The certificate/report can not be copied in whole or part, the copied version is invalid. The certificate is invalid in case of illegal transfer, reproduction, embezzlement, imposture, modification or any altering. PONY shall investigate the applicant's legal liability accordingly.

5. The certificate/report takes no account of the differences of countries and applicants.
6. Xtractor Depot has the right to dispose the provided sample after approval of the certificate/report.

Safety Data Sheet (SDS)

According to Annex II of REACH (EC 1907/2006)

Silicon dioxide

Section 1 - Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Sample Name: Silicon dioxide

Trade Name: Silica Gel

Sample Code: N/A

Physical state: Powder, odorless.

Color: White

1.2 Relevant identified uses and uses advised against:

Relevant identified uses: Analysis and purification of pharmaceutical, chemical intermediates

Uses advised against: N/A

Reason why uses advised against: N/A

1.3 Details of the supplier of the safety data sheet:

Supplier: Xtractor Depot

Street address: 855 Washington Blvd, Montebello, CA 90640
804 E Mill St., San Bernardino, CA 92408

Telephone number: 888-733-2712

E-Mail address: xtractordepot@gmail.com

Section 2 - Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP):

Serious eye irritation: 2A

Specific target organ toxicity - Repeated exposure: 1 (respiratory system)

2.1.2 Classification according to Directive 67/548/EEC: None.

2.1.3 Additional information: UN Classification: N/A

2.2 Label elements:

pictogram(s):



Signal word: Danger

Hazard statement(s):

H319 Causes serious eye irritation

H372 Cause damage to organ through prolonged or repeated exposure. (respiratory system)

Precautionary statement(s):

•Prevention:

P260 Do not breathe mist / vapors / spray.

P264 Wash skin and clothing thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves, protective clothing, wear protective goggles, face protection.

•Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

•Storage: N/A

•Disposal:

P501 Dispose of contents and container in accordance with local regulations.

2.3 Other hazards: This product does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

Section 3 - Composition/Information on Ingredients

General chemical description: This product is a substance.

Composition, Information on Ingredients:

Chemical Name	CAS No.	Percent (by weight)	EC#	Classification according to 67/548/EEC
silicon dioxide; synthetic amorphous silicon dioxide (nano)	7631-86-9	99.9	231-545-4	Eye Irrit. 2 STOT Rep. 1

Section 4 - First Aid Measures

4.1 Description of first aid measures

General notes: This product should not present a health hazard when used under reasonable conditions.

Following inhalation: If respiratory tract irritation occurs, remove to fresh air immediately. If breathing is difficult, given oxygen by trained professionals . If not breathing, give artificial respiration immediately. Get medical aid immediately if feel unwell.

Following skin contact: No harm under normal using or storing conditions . If skin irritation occurs, remove contaminated clothing and shoes immediately and flush skin with plenty of water and soap. Get medical aid if irritation occur.

Following eye contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15-30 minutes, and lift the upper and lower eyelids occasionally. Check for and remove contact lenses if easily possible. DO NOT rubbing eyes with hand. Get medical aid immediately.

Following ingestion: Ingestion of this material is unlikely. Get medical aid immediately if symptoms occur.

Self-protection of first-aider: Use proper personal protective equipment as indicated in Section 8.

4.2 Most important symptoms and effects, both acute and delayed: See Section 11 for more information.

4.3 Indication of any immediate medical attention and special treatment needed: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

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5.1 Extinguishing media:

Suitable extinguishing media: Use appropriate extinguishing media in case of fire. Such as powder, water spray, foam, carbon dioxide and dry sand.

Unsuitable extinguishing media: None.

5.2 Special hazards arising from the substance or mixture: The product may decompose on heating producing irritating gases.

Hazardous combustion products: During a fire, irritating fumes may be generated by thermal decomposition or combustion.

5.3 Advice for firefighters: As in any fire, wear a self-contained breathing apparatus in pressure-demand, and full protective gear. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Move containers from fire area if this can be done without risk.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Protective equipment: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Use proper personal protective equipment as indicated in Section 8.

Emergency procedures: Evacuate and ventilate spill area. Stop leak if safe to do so. Move containers from spill area. Isolate hazard area. Do not touch or walk through spilled material. Avoid breathing vapor and fume. Remove all sources of ignition or heat. Review Section 5 and Section 7 sections before proceeding with clean-up.

6.1.2 For emergency responders: Avoid breathing vapors, mist or gas. Keep adequate ventilation. Remove all sources of ignition or heat.

6.2 Environmental precautions: Avoid dispersal of spilt material and run off and contact with soil, waterways, drains and sewers.

6.3 Methods and material for containment and cleaning up:

6.3.1 For containment: Stop leak if safe to do so. Move containers from spill area.



6.3.2 For cleaning up: Carefully collect remainder, then remove to suitable and closed container for disposal or recycle according to local regulations. The materials which are used as cleansing are disposed according to local regulations. Review Section 5 and Section 7 sections before proceeding with clean-up.

6.3.3 Other information: Contaminated floor may be flushed with water into chemical sewer.

6.4 Reference to other sections: Use proper personal protective equipment as indicated in Section 8. And see Section 13 for disposal information.

Section 7 - Handling and storage

7.1 Precautions for safe handling:

Protective measures: Training should be provided to anyone working with or near this material. Training should cover potential health effects and proper handling techniques. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation.

Measures to prevent fire: Ensure good local exhaust ventilation. Keep container away from any sources of ignition or heat (e.g. open flames, hot surfaces). The work area should be equipped with the corresponding species and quantity of emergency equipment, spills emergency treatment equipment and appropriate storage material.

Measures to prevent aerosol and dust generation: Ensure good local exhaust ventilation. Handle and open container with care.

Measures to protect the environment: Do not allow the products to be released to the environment without proper treatment.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

7.2 Conditions for safe storage, including any incompatibilities:

Technical measures and storage conditions: Store in a cool, dry, well-ventilated area away from incompatible substances (see section 10), feedstuffs, beverages and foods. Keep away from heat, sparks and flame. Treat carefully, avoid physical damage to containers. The storage area should be equipped with the corresponding species and quantity of emergency equipment, spills emergency treatment equipment and appropriate storage material.

Packing materials: N/A

Requirements for storage rooms and vessels: Do not allow products or scraps of the products to accumulate and maintain clear aisles with adequate access to all storage areas and exits.

7.3 Specific end use(s):

Recommendations: N/A.

Industrial sector specific solutions: N/A.

Section 8 - Exposure Controls, Personal Protection

Information on monitoring procedures:

CAS#	ACGIH	NIOSH	OSHA
7631-86-9	N/A	REL-TWA 6 mg/m ³	PEL-TWA 20 mg/m ³

8.2 Exposure controls: No data available

8.2.1 Appropriate engineering controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Keep away from heat and fire.

8.2.2 Personal protection equipment:

8.2.2.1 Eye and face protection: No special requirement under normal conditions. It is recommended to wear appropriate safety spectacles.

8.2.2.2 Skin protection:

➤ **Hand protection:** No special requirement under normal use. Wear protective gloves when work environment needed.

➤ **Other skin protection:** No special requirement under normal use. Wear appropriate protective clothing to prevent skin exposure when work environment needed. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

8.2.2.3 Respiratory protection: No special requirement under normal use. A full face positive pressure supplied-air respirator or a self contained breathing apparatus should be used when large spilled or fire.

8.2.2.4 Other protection: To maintain good health habits. Smoking should be prohibited in areas where this material is stored.

8.2.3 Environmental exposure controls: N/A

Section 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance: White powder.

Odor: Odorless.

Odor threshold: N/A

pH: N/A

Melting point/freezing point: N/A

Initial boiling point and boiling range: N/A

Flash Point: N/A

Evaporation rate: N/A

Upper/lower flammability or explosive limits: N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density: N/A

Density: N/A

Solubility in Water: N/A

Partition coefficient: n-octanol/water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Viscosity: N/A

Explosive properties: N/A

Oxidising properties: N/A

Flammability (solid, gas): N/A

9.2 Other information: N/A

Section 10 - Stability and Reactivity

10.1 Reactivity: Stable under normal storage and handling conditions.

10.2 Chemical stability: Stable under normal storage and handling conditions.

10.3 Possibility of hazardous reactions: No hazardous reactions under normal storage and handling conditions. Vinyl acetate vapor may react vigorously in contact with silica gel.

10.4 Conditions to avoid: Incompatible materials, any sources of ignition or heat (e.g. open flames, smoking, hot surfaces, excess heat).

10.5 Incompatible materials: Fluoride, oxygen difluoride, chlorine trifluoride.

10.6 Hazardous decomposition products: N/A

Section 11 - Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity:

CAS#	LC50/LD50
7631-86-9	LD50 >5000 mg/kg Rat Oral LD50 >5000 mg/kg rabbit dermal

Skin irritation/corrosion: No data available.

Serious eye damage/eye irritation:

Eye irritation. (DHHS (NIOSH) Publication No. 2001-145 (CD-ROM) 8, 2001.)

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Repeated dose toxicity: No data available.

Carcinogenicity:

IARC: Group 3-Not classifiable as to carcinogenicity to humans.

Reproductive toxicity: No data available.

STOT-single exposure: No data available.

STOT-repeated exposure:

In the study of United States diatomaceous earth workers, increasing exposure-response gradients were detected for both non-malignant respiratory disease. (IARC. 1972-PRESENT.)

Aspiration hazard: No data available.

Potential Health Effects:

Eye: No harm under normal using or storing conditions. If contacted, may result in eye irritation.

Skin: No harm under normal using or storing conditions. If contacted, may result in skin irritation.

Ingestion: Ingestion is unlikely under normal using or storing conditions. May be harmful if swallowed.

Inhalation: Inhalation is unlikely under normal using or storing conditions. May be harmful if inhaled. May cause respiratory tract irritation.

Section 12 - Ecological Information

12.1 Toxicity: No data available.

12.2 Persistence and degradability: No data available.

12.3 Bioaccumulative potential: No data available.

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment: No compositions in this product with known CAS numbers are assessed to be a PBT or a vPvB.

12.6 Other adverse effects:

Water Hazard Classes (WGK): No data available.

12.7 Additional information: Do not allow large quantities of it reach ground water, water course or sewage system. Do not allow this product to be released to the environment without proper treatment.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

13.1.1 Product/Packaging disposal: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Disposal should be in accordance with applicable regional, national and local laws and regulations. Contaminated packaging material should be treated equivalent to residual chemical.

13.1.2 Waste treatment-relevant information: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

13.1.3 Sewage disposal-relevant information: Avoid dispersal of spilled material and run off and contact with soil, waterways, drains and sewers.

13.1.4 Other disposal recommendations: Refer to Section 7 - Handling and Storage and Section 8 - Exposure Controls/Personal Protection for additional handling information and protection of employees.

Section 14 - Transport Information

Sea transport (IATA/DGR 60th)**UN Number:** N/A**UN Proper Shipping Name:** N/A**Transport hazard class:** N/A**Subsidiary risk:** N/A**Packaging group:** N/A**Packaging Sign:** N/A**Other Information:** N/A**Special precautions for user:** N/A**Sea transport (IMDG CODE 38-16 edition)****UN Number:** N/A**UN Proper Shipping Name:** N/A**Transport hazard class:** N/A**Subsidiary risk:** N/A**Packaging group:** N/A**Packaging Sign:** N/A**Other Information:** N/A**Special precautions for user:** N/A**Marine Pollutant (Y/N):** No.**Land transport (TDG20th)****UN Number:** N/A**UN Proper Shipping Name:** N/A**Transport hazard class:** N/A**Subsidiary risk:** N/A**Packaging group:** N/A**Packaging Sign:** N/A**Other Information:** N/A**Special precautions for user:** N/A

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Regulatory information: Reference to the local, national, US, EU, CA and international regulations.

CAS No.	TSCA	IECSC	EINECS/ ELINCS/NLP	DSL/NDSL
7631-86-9	Listed	Listed	Listed	Listed in DSL

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16 - Additional Information

Issue Time: 2019-07-10

Issue Department: Technical department

Data review unit: /

Modification record: /

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other Information:

CAS: (Chemical Abstracts Service);

EC: (European Commission);

ACGIH: (American Conference of Governmental Industrial Hygienists);

NIOSH: (US National Institute for Occupational Safety and Health);

OSHA: (US Occupational Safety and Health);

TLV: (Threshold Limit Value)

TWA: (Time Weighted Average);

STEL: (Short Term Exposure Limit);

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PEL: (Permissible Exposure Level);

REL: (Recommended Exposure Limit);

PC-STEL: (Permissible concentration-time weighted average);

PC-TWA: (Permissible concentration-short time exposure limit);

LC50: (Lethal concentration, 50 percent kill);

LD50: (Lethal dose, 50 percent kill);

IARC: (International Agency for Research on Cancer);

EC50: (Median effective concentration);

BCF: (Bioconcentration Factor);

BOD: (Biochemical oxygen demand);

NOEC: (No observed effect concentration);

NTP: (US National Toxicology Program);

RTECS: (Registry of Toxic Effects of Chemical Substances);

IATA: (International Air Transport Association);

IMDG: (International Maritime Dangerous Goods);

TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations);

TOC: (Total Organic Carbon);

TSCA: (Toxic Substances Control Act of USA);

DSL: (the Domestic Substances List of Canada);

NDSL: (the Non-domestic Substances List of Canada)

***End of report ***