

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: SPHERILEX® DP-0110

Other means of identification

CAS Number: 112926-00-8, 7631-86-9

Recommended restrictions

Recommended use: EXP = Developmental Product. Developmental products are labelled with the EXP designation. Commercialization depends on market response. Paints and varnishes.

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation
2 Turner Place
Piscataway, NJ 08854
USA

Telephone : +1 732 981 5000

E-mail : product-regulatory-services@evonik.com

Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency : 800 681 9531 (CHEMTREC MEXICO)

+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification

Not classified

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Substances

Composition Comments: The components are not hazardous or are below required disclosure limits.

4. First-aid measures

Description of necessary first-aid measures

Inhalation:	In case product dust is released: Possible discomfort: cough, sneezing Move to fresh air.
Skin Contact:	Wash off with plenty of water and soap.
Eye contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Obtain medical attention. No information available.
Ingestion:	Clean mouth with water and drink afterwards plenty of water. After absorbing large amounts of substance / In case of discomfort: Supply with medical care.
Personal Protection for First-aid Responders:	No data available.

Most important symptoms and effects, both acute and delayed

Symptoms:	None known.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No hazards which require special first aid measures.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, CO₂, dry powder. Adapt fire-extinguishing measures to surroundings

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture: None known.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters:

In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

Accidental release measures:

Avoid dust formation.

Methods and material for containment and cleaning up:

Vacuum up immediately. A vacuum cleaner with a high-efficiency filtration system is recommended. To avoid raising dust do not use brooms or compressed air. Collect and place in correctly labelled containers. For disposal see Section 13.

Environmental Precautions:

Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):

No data available.

Safe handling advice:

Handle in accordance with good industrial hygiene and safety practice. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. If necessary: Local ventilation.

Contact avoidance measures:

No data available.

Storage

Safe storage conditions:

Keep in a dry place. Take precautionary measures against static discharges.

Safe packaging materials:

No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	PEL	6 mg/m ³	Source: 54 FR 2701
	PEL	20 millions of particles per cubic foot of air	Source: 54 FR 2701

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment**Eye/face protection:**

Safety glasses with side shields In case of dusts: Wear tight-fitting eye protection (e.g. safety goggles)

Skin Protection**Hand Protection:**

Additional Information: Wear protective gloves made of the following materials: material, rubber, leather. Additional Information: The data about break through time/strength of material is not valid for undissolved solids/dust.

Skin and Body Protection:

No special protective equipment required.

Respiratory Protection:

No special protective equipment required. If dust occurs: Dust mask with P2 particle filter

Hygiene measures:

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care. Wash contaminated clothing before reuse.

9. Physical and chemical properties**Information on basic physical and chemical properties****Appearance**

Physical state:	solid
Form:	Powder
Color:	White
Odor:	Odorless
Odor Threshold:	Not applicable
Melting Point:	Approximate 3,092 °F/1,700 °C
Boiling Point:	Not determined.
Flammability:	Not applicable
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	Not applicable
Explosive limit - lower:	Not applicable
Flash Point:	Not applicable (solid)
Autoignition Temperature:	Not applicable
Decomposition Temperature:	> 3,632 °F/> 2,000 °C
pH:	6.0 - 8.0 (DIN / ISO 787 / 9) (50 g/l, 20 °C) Suspension
Viscosity	
Dynamic viscosity:	Not applicable solid

Kinematic viscosity:	Not applicable solid
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	> 1 mg/l
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable
Vapor pressure:	Not applicable
Relative density:	No data available.
Density:	Approximate 2 g/cm ³ (68 °F/20 °C)
Bulk density:	No data available.
Vapor density (air=1):	No data available.

Other information

Explosive properties:	Not to be expected in view of the structure
Oxidizing properties:	Not to be expected in view of the structure
Minimum ignition temperature:	Not applicable
Dust explosion properties:	Not dust explosive
Evaporation Rate:	Not applicable
Minimum ignition energy:	Not applicable

10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reactions are known if properly handled and stored.
Conditions to avoid:	No specific hazards are known.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	None known. Stable under normal conditions. Product will not undergo hazardous polymerization.

11. Toxicological information

General information:	Silicosis or other product specific illnesses of the respiratory tract were not observed in association with the product.
-----------------------------	---

Information on toxicological effects**Information on likely routes of exposure**

Inhalation:	Information on effects are given below.
Skin Contact:	Information on effects are given below.
Eye contact:	Information on effects are given below.
Ingestion:	Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat, Female, Male): > 5,000 mg/kg (OECD 401) Based on available data, the classification criteria are not met.

Dermal

Product: LD 50 (Rabbit): > 5,000 mg/kg Based on available data, the classification criteria are not met.

Inhalation

Product: LC 50 (Rat, Female, Male, 4 h): > 5.01 mg/l Dusts, mists and fumes, Based on available data, the classification criteria are not met.

Repeated dose toxicity

Product: NOAEL (Rat(Male), Oral, 28 day, 7 days a week): \geq 1,000 mg/kg No negative effects.

Skin Corrosion/Irritation

Product: OECD 404 (Rabbit): Not irritating; Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation

Product: Rabbit: Not irritating Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization

Product: Local Lymph Node Assay (LLNA), OECD 429 (Mouse): Not a skin sensitizer. Maximization Test, OECD 406 (Guinea Pig): Not a skin sensitizer.

Carcinogenicity

Product: No evidence that cancer may be caused. Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

no evidence of mutagenic effects

No evidence of mutagenic effects reported in literature.

In vitro

Product: gene mutation test (OECD 471): negative;
gene mutation test (OECD 490): negative;
Chromosomal aberration (OECD 473): negative;

Product name: SPHERILEX® DP-0110

In vivo	
Product:	Chromosomal aberration (OECD 475) Oral (Rat, Male): negative;
Reproductive toxicity	
Product:	no evidence of reproductiontoxic properties
Specific Target Organ Toxicity - Single Exposure	
Product:	no evidence for hazardous properties
Specific Target Organ Toxicity - Repeated Exposure	
Product:	no evidence for hazardous properties
Aspiration Hazard	
Product:	Not applicable

Information on health hazards

Other hazards	
Product:	Based on available data, the classification criteria are not met.;

12. Ecological information**Ecotoxicity:****Acute hazards to the aquatic environment:****Fish**

Product: LC 50 ((Brachydanio rerio), 96 h): > 10,000 mg/l The reported toxic effects relate to the nominal concentration.

Aquatic Invertebrates

Product: EC 50 (Daphnia magna, 24 h): > 1,000 mg/l The reported toxic effects relate to the nominal concentration.

Toxicity to Aquatic Plants

Product: EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 173 mg/l (OECD 201)

Toxicity to microorganisms

Product: EC 50 (local activated sludge, 3 h): > 2,500 mg/l (OECD 209)

Chronic hazards to the aquatic environment:**Fish**

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Toxicity to microorganisms

Product: EC 50 (local activated sludge, 3 h): > 2,500 mg/l (OECD 209)

Persistence and Degradability**Biodegradation**

Product: The methods for determining biodegradability are not applicable to inorganic substances.

Product name: SPHERILEX® DP-0110

BOD/COD Ratio**Product:** No data available.**Bioaccumulative potential****Bioconcentration Factor (BCF)****Product:** Not to be expected.**Partition Coefficient n-octanol / water (log Kow)****Product:** Log Kow: Not applicable**Mobility in soil:****Product** No remarkable mobility in soil is to be expected.**Results of PBT and vPvB assessment:****Product** No data available.**Other adverse effects:****Other hazards****Product:** The data we have at our disposal do not necessitate identification concerning environmental hazard.**13. Disposal considerations****Disposal methods:** Review all local, state and federal regulations concerning health and pollution for appropriate disposal procedures. Waste must be disposed of in accordance with federal, state, provincial and local regulations.**Contaminated Packaging:** Offer rinsed packaging material to local recycling facilities. Other countries: observe the national regulations.**14. Transport information****Domestic regulation****49 CFR**

Not regulated as a dangerous good

International Regulations**UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. Regulatory information**US Federal Regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Not classified

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

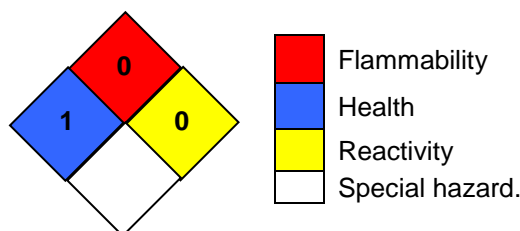
No ingredient requiring a warning under CA Prop 65.

Inventory Status:

Canada DSL Inventory List:	On or in compliance with the inventory	
US TSCA Inventory:	On or in compliance with the inventory	Commercial Status: Active

16. Other information, including date of preparation or last revision

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 08/24/2021

Version #: 1.1

Further Information: No data available.

Revision Information Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Disclaimer: This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.