

Product name: SPHERILEX® DP-0112

# SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations  
(SOR/2015-17)

## 1. Identification

**Product identifier:**  
SPHERILEX® DP-0112

**Other means of identification**  
**CAS Number:** 112926-00-8, 7631-86-9

### Recommended use of the chemical and restrictions on use

**Recommended use:** Coating agent  
**Restrictions on use:** None known.

### Manufacturer/Importer/Distributor Information

Company Name : Evonik Canada Inc.  
3380 South Service Road  
L7N 3J5 Burlington ON  
Canada

Telephone : +1 905 336 3423  
Fax : +1 905 332 5632  
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)  
+1 613 996 6666 (CANUTEC – For Transportation Emergencies Only)  
+1 973 929 8060 (Product Regulatory Services)

## 2. Hazard identification

### According to Hazardous Products Regulations

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.

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### 3. Composition/information on ingredients

#### Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)		112926-00-8	

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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

The exact concentration has been withheld as a trade secret.

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation:</b>	In case product dust is released: Possible discomfort: cough, sneezing Move to fresh air.
<b>Skin Contact:</b>	Wash off with plenty of water and soap.
<b>Eye contact:</b>	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.
<b>Ingestion:</b>	Clean mouth with water and drink afterwards plenty of water. After absorbing large amounts of substance / In case of discomfort: Supply with medical care.
<b>Personal Protection for First-aid Responders:</b>	No data available.

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms:</b>	None known.
<b>Hazards:</b>	None known.

#### Indication of immediate medical attention and special treatment needed

<b>Treatment:</b>	No hazards which require special first aid measures.
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### 5. Fire-fighting measures

#### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Water spray, foam, CO<sub>2</sub>, dry powder. Adapt fire-extinguishing measures to surroundings

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**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 firefighters

**Special fire fighting procedures:** Containers can build up pressure if exposed to heat (fire). Cool with water spray.

**Special protective equipment for fire-fighters:** As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Avoid dust formation.

**Accidental release measures:** No data available.

**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:** Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, rivers, groundwater or soil. Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

### 7. Handling and storage

#### Handling

**Technical measures:** Provide adequate ventilation.

**Local/Total ventilation:** No data available.

**Safe handling advice:** Use with adequate ventilation. Wash thoroughly after handling. Follow all SDS/label precautions even after container is emptied because it may retain product residues.

**Contact avoidance measures:** No data available.

#### Storage

**Safe storage conditions:** Take precautionary measures against static discharges. Keep containers tightly sealed and store in a dry, cool place

**Safe packaging materials:** No data available.

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## 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) - Total	TWA		4 mg/m <sup>3</sup>	CAD BC OEL
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) - Respirable.	TWA		1.5 mg/m <sup>3</sup>	CAD BC OEL
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) - Respirable dust.	TWA		6 mg/m <sup>3</sup>	OEL (QUE)

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

Provide adequate ventilation.

### 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)

#### 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.

#### Other:

Safety showers and eye showers should be easily accessible. In order to determine further specifications applicable to the personal protection equipment, a hazard assessment according to the OSHA standards (29 CFR 1910.132) for personal protection equipment (PPE) is recommended before the product is used.

#### Respiratory Protection:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

#### 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

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<b>Physical state:</b>	solid
<b>Form:</b>	Powder
<b>Color:</b>	White
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	Not applicable
<b>Melting Point:</b>	Approximate 3,092 °F/ 1,700 °C
<b>Boiling Point:</b>	No data available.
<b>Flammability:</b>	Not applicable
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Explosive limit - upper:</b>	Not applicable
<b>Explosive limit - lower:</b>	Not applicable
<b>Flash Point:</b>	Not applicable (solid)
<b>Auto-ignition temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	> 3,632 °F/> 2,000 °C
<b>pH:</b>	6.0 - 8.0 at 68 °F/20 °C Method: DIN / ISO 787 / 9 Concentration: 50 g/l Suspension
<b>Viscosity</b>	
<b>Dynamic viscosity:</b>	Not applicable (solid)
<b>Kinematic viscosity:</b>	Not applicable (solid)
<b>Flow Time:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	> 1 mg/l
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable
<b>Vapor pressure:</b>	Not applicable
<b>Relative density:</b>	No data available.
<b>Density:</b>	Approximate 2 g/cm <sup>3</sup> at 68 °F/20 °C
<b>Bulk density:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Other information</b>	
<b>Explosive properties:</b>	Not to be expected in view of the structure
<b>Oxidizing properties:</b>	Not to be expected in view of the structure
<b>Self-ignition:</b>	Not applicable
<b>Peroxides:</b>	Not applicable
<b>Dust explosion properties:</b>	Not dust explosive
<b>Evaporation Rate:</b>	Not applicable
<b>Minimum ignition energy:</b>	Not applicable

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**10. Stability and reactivity**

<b>Reactivity:</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	No hazardous reactions are known if properly handled and stored.
<b>Conditions to avoid:</b>	No specific hazards are known.
<b>Incompatible Materials:</b>	None known.
<b>Hazardous Decomposition Products:</b>	None known.

**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 likely routes of exposure**

<b>Inhalation:</b>	Information on effects are given below.
<b>Skin Contact:</b>	Information on effects are given below.
<b>Eye contact:</b>	Information on effects are given below.
<b>Ingestion:</b>	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, OECD 436, Dust and mist, 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:** analogous OECD method, Rabbit, Not irritating, Based on available data, the classification criteria are not met.

**Respiratory or Skin Sensitization**

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

**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

**Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended**

No carcinogens present or none present in regulated quantities

**Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended**

No carcinogens present or none present in regulated quantities

**Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended**

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity**

no evidence of mutagenic effects

**In vitro**

**Product:** gene mutation test, OECD 471: , negative  
gene mutation test, OECD 490: , negative  
Chromosomal aberration, OECD 473: , negative

**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:** No data available.

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## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** LC 50, (Brachydanio rerio), 96 h, > 10,000 mg/IOECD 203, The reported toxic effects relate to the nominal concentration.

##### Aquatic Invertebrates

**Product:** EC 50, Daphnia magna, 24 h, > 1,000 mg/IOECD 202, 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 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.

#### 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:** , 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.



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**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:**

Waste must be disposed of in accordance with federal, provincial and local regulations.

**Contaminated Packaging:**

Offer rinsed packaging material to local recycling facilities. Other countries: observe the national regulations. Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

**14. Transport information**

**Domestic regulation**

**TDG**

Not regulated as a dangerous good

Remarks : Not dangerous according to transport regulations.

**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**

**Canada Federal Regulations**

**List of Toxic Substances (CEPA, Schedule 1)**

Not Regulated

**Export Control List (CEPA 1999, Schedule 3)**

Not Regulated

**National Pollutant Release Inventory (NPRI)**

**Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements**

NPRI PT5 Not Regulated

**Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)**

NPRI Not Regulated

**Greenhouse Gases**

Not Regulated

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**Canada. Substances Subject to Significant New Activity (SNAc) Reporting Requirements**

Not Regulated

**Controlled Drugs and Substances Act**

CA CDSI	Not Regulated
CA CDSII	Not Regulated
CA CDSIII	Not Regulated
CA CDSIV	Not Regulated
CA CDSV	Not Regulated
CA CDSVII	Not Regulated
CA CDSVIII	Not Regulated

**Precursor Control Regulations**

Not Regulated

**16. Other information, including date of preparation or last revision**
**Issue Date:** 03/22/2019

**Version #:** 1.3

**Abbreviations and acronyms:**

CAD BC OEL:	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
OEL (QUE):	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
CAD BC OEL / TWA:	Time Weighted Average (TWA):
OEL (QUE) / TWA:	Time Weighted Average (TWA):

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the

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European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further Information:** No data available.

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

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