

1 Identification

- **Product identifier**
- **Trade name:** **SYLOBEAD® SG W 127**
- **Application of the substance / the preparation:**
Intermediate product of varied applicability in industry and trade.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Grace Canada Inc.
42, rue Fabre,
Salaberry-de-Valleyfield
(Quebec) J6S 4K7
- **Information department:**
Health and Safety (9 AM to 5 PM-EST) 1-410-531-4000
MSDS.Davison@grace.com
- **Emergency information:**
Chemtrec North America: +1-800-424-9300
Chemtrec International: +1-703-527-3887
Other Emergencies (24hr): +1-410-531-4000

2 Hazard identification

- **Summary of Hazards:**
White, Granulate, No Data Available
- **Classification of the substance or mixture**
The substance is not classified, according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** None
- **Hazard pictograms** None
- **Signal word** None
- **Hazard statements** None
- **Hazard not otherwise classified**
The product is very adsorbent and may have a drying effect on skin and eyes.
When exceeding the OEL (Occupational Exposure Limit) a mechanical overburdening of the respiratory system is possible.

3 Composition/Information on ingredients

- **Chemical characterization: Substances**
- **Additional information:**

· CAS No. and description:		
7631-86-9	amorphous silicon dioxide, chemically prepared	95-100% w/w

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Generally the product does not irritate the skin.
Wash with water.
- **After eye contact:**
Flush opened eye with large quantities of running water for at least 30 minutes. If symptoms occur, consult a doctor.

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- **After swallowing:** Seek medical attention. Do not induce vomiting.
- **Information for doctor:**
 - **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
 - **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Hazardous combustion products** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Wear personal protective equipment.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Vacuuming or wet sweeping may be used to avoid dust dispersal.
- **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Prevent formation of dust.
Keep receptacles tightly sealed.
Provide suction extractors if dust is formed.
Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.
Take precautionary measures against static discharges.
- **Information about protection against explosions and fires:**
Protect against electrostatic charges.
The product is not flammable.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in dry conditions.

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This product is hygroscopic.

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8 Exposure controls/ Personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· Components with limit values that require monitoring at the workplace:

7631-86-9 amorphous silicon dioxide, chemically prepared

IDLH (USA)	STEL: 3000 mg/m ³ IDLH: Immediately Dangerous to Life or Health
PEL (USA)	TWA: 80mg/m ³ /%SiO ₂ mg/m ³ OSHA TWA for amorphous silica
REL (USA)	TWA: 6 mg/m ³ NIOSH TWA
TLV (USA)	TWA: 10* 5** mg/m ³ OSHA TWA *Total dust **Respirable fraction

· Additional Occupational Exposure Limit Values for possible hazards during processing:
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Dust inhalable

OEL (Canada)	TWA: 10 mg/m ³ substance interaction 3
PEL (USA)	TWA: 15 mg/m ³ TWA
REL (USA)	TWA: 15 mg/m ³ TWA

Dust respirable

OEL (Canada)	TWA: 3 mg/m ³ substance interaction 3
PEL (USA)	TWA: 5 mg/m ³ TWA
REL (USA)	TWA: 5 mg/m ³ TWA

Silica, amorphous

TWA (Canada)	TWA: 10 mg/m ³
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- **Additional information:** Valid lists at time of creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- **Protection of hands:**



Protective gloves

Wear gloves for the protection against mechanical hazards.
Use gloves of stable material

- **Material of gloves**
Butyl rubber, BR
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.11 mm

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- For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR
Nitrile rubber, NBR

- Not suitable are gloves made of the following materials: Strong fabric gloves

- Eye protection:



Safety glasses

- Body protection: Protective work clothing

9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

Physical State: Solid

- Appearance:

Physical State: Granulate
Color: White

Odor: Odorless

Odor threshold: Not applicable.

pH-value at 20 °C (68 °F): 4.0 - 9.0

- Change in condition

Melting point/Melting range: >1700 °C (>3092 °F)

Boiling point/Boiling range: >1700 °C (>3092 °F)

Flash point: Not determined.

Flammability (solid, gaseous): Product is not flammable.

Ignition temperature: Not applicable.

Decomposition temperature: Not applicable.

Auto ignition temperature: Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

- Explosion limits:

Lower: Not applicable.

Upper: Not applicable.

Vapor pressure: Not applicable.

Density at 20 °C (68 °F): 2.17-2.20 g/cm³ (18.10865-18.359 lbs/gal)

Bulk density at 20 °C (68 °F): 200 - 850 kg/m³

Vapor density: Not applicable.

Evaporation rate: Not applicable.

- Solubility in / Miscibility with

Water at 20 °C (68 °F): ≥100 mg/l (OECD 105)

Coefficient of water/oil distribution: Not available.

- Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

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- | | |
|--|-----------------|
| · Molecular weight | 60.09 g/mol |
| · Other information
Particle characteristics | Not determined. |

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Materials to be avoided:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

7631-86-9 amorphous silicon dioxide, chemically prepared

Oral	LD50	>5000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5000 mg/kg (rabbit) (no guidance available)
Inhalative	LC0	>140->2000 mg/m³/4h (rat) (OCED 403)
Maximum attainable concentration, mortality does not appear.		

- **Primary irritant effect:**

- **on the skin:**

7631-86-9 amorphous silicon dioxide, chemically prepared

Irritation of skin	IS	0 (rabbit) (OECD 404)
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- **on the eye:**

7631-86-9 amorphous silicon dioxide, chemically prepared

Irritation of eyes	IS	0 (rabbit) (OECD 405)
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- **Sensitization:** No sensitizing effects known.
- **Respiratory sensitization** No further relevant information available.
- **Skin sensitization** No further relevant information available.

- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

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- **NTP (National Toxicology Program)**

Substance is not listed.

- **Repeated dose toxicity**

7631-86-9 amorphous silicon dioxide, chemically prepared

Oral	NOAEL (90 d)	9000 mg/kg bw/day (rat) (OECD 408)
Inhalative	NOAEL (90d)	31 mg/m³ (rat) (acc. to OECD 413)

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· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**· **Carcinogenicity****7631-86-9 amorphous silicon dioxide, chemically prepared**

Oral	NOAEL (carcinogenicity)	3950-5530 mg/kg bw (mouse) Literature
		1830 mg/kg bw (rat) Literature

· **Mutagenicity****7631-86-9 amorphous silicon dioxide, chemically prepared**

AMES Test	>5 mg/plate (in-vitro) (OECD 471) negative, with and without metabolic activation ECHA 2012
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· **Reproductive toxicity****7631-86-9 amorphous silicon dioxide, chemically prepared**

Oral	NOAEL (maternal toxicity)	1350 mg/kg bw/day (rat) (OECD 414)
	NOAEL (teratogenicity)	1350 mg/kg bw/day (rat) (OECD 414)

· **Specific target organ toxicity (single exposure)** No further relevant information available.· **Specific target organ toxicity (repeated exposure)** No further relevant information available.· **Aspiration hazard** No further relevant information available.**12 Ecological information**· **Toxicity**· **Aquatic toxicity:**· **Fish toxicity****7631-86-9 amorphous silicon dioxide, chemically prepared**

LC0 (96 h) (static)	10000 mg/l (zebra fish) (OECD 203)
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· **Water flea toxicity****7631-86-9 amorphous silicon dioxide, chemically prepared**

EC50 (24 h)	>1000 mg/l (Daphnia magna) (OECD 202)
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· **Algae toxicity****7631-86-9 amorphous silicon dioxide, chemically prepared**

EC50 (72 h)	>10000 mg/l (Scenedesmus subspicatus) (OECD 201) comparable substance
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· **Persistence and degradability** No further relevant information available.· **Other information:**

Amorphous silica dioxide is chemically and biologically inert.

By the insolubility in water there is a separation at every filtration and sedimentation process.

· **Behavior in environmental systems:**· **Bioaccumulative potential** Does not accumulate in organisms· **Mobility in soil** No further relevant information available.· **Additional ecological information:**· **General notes:** Not hazardous for water.· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

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· **Other adverse effects** No further relevant information available.**13 Disposal considerations**· **Precautions for disposal:**· **Recommendation:**

Disposal must be made according to official regulations.

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State/provincial and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state/provincial and local requirements.

14 Transport information· **UN-Number**· **DOT/TDG, ADR, ADN, IMDG, IATA**

Not applicable.

· **UN proper shipping name**· **DOT/TDG, ADR, ADN, IMDG, IATA**

Not applicable.

· **Transport hazard class(es)**· **DOT, ADR, ADN, IMDG, IATA**· **Class**

Not applicable.

· **Packing group**· **DOT/TDG, ADR, IMDG, IATA**

Not applicable.

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Not applicable.

· **Segregation groups**

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· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

Not regulated as hazardous goods by DOT, ADR, IMO, or IATA.
GRACE recommendation for air transport: Cargo aircraft only.

15 Regulatory information· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **SARA**· **SARA 302/304**

Substance is not listed.

· **SARA 313**

Substance is not listed.

· **SARA 311/312** Not applicable.· **TSCA (Toxic Substances Control Act):**

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· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

Substance is not listed.

· **TLV (Threshold Limit Value)**

Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

· **Canadian DSL**

7631-86-9 | amorphous silicon dioxide, chemically prepared

· **Canadian NDSL**

Substance is not listed.

· **European EINECS**

Substance is listed.

· **Philippines Inventory of Chemicals and Chemical Substances PICCS**

Substance is listed.

· **Inventory of the Existing Chemical Substances manufactured or imported in China IECSC**

7631-86-9 | amorphous silicon dioxide, chemically prepared

· **Australian Inventory of Chemical Substances AICS**

Substance is listed.

· **Existing and New Chemical Substance List ENCS**

1-548

· **Korean Existing Chemical Inventory KECI**

KE-31032

· **TCSCA (Taiwan)**

EPEP4A01648271

· **Russian Register of Potentially Hazardous Chemical and Biological Substances (RPOHV)**

№ AT-000209 от 18.01.1995 г.

· **New Zealand Inventory of Chemicals (NZIoC)**

Substance is listed.

· **GHS label elements** None· **Hazard pictograms** None· **Signal word** None· **Hazard statements** None· **National regulations:**

This product has to be classified in accordance to the criteria of the controlled products regulation and the SDS contains all the information required by the Hazardous Products Regulations (HPR).

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** GRACE Safety & Health Department· **Harmonized Tariff Schedule** 2811 2200· **Contact:**

SALES OFFICES

USA:

GRACE

W. R. Grace & Co.-Conn

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• **Other information:**

• **Date of the latest revision of the safety data sheet** 06/16/2021 / 4.2

• **The first date of preparation** 05/15/2015

• **Number of revision times and the latest revision date** 4.3 / 06/16/2021

• **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

• **Others** No further relevant information available.

• *** Data compared to the previous version altered.**