

1. Product and company identification

Product name Blank
Product code Part #: 930001
Supplier Evident Australia PTY LTD
Address Level 4, 97 Waterloo Road, Macquarie Park NSW 2113, Australia
Telephone +1800-844-211
FAX +
e-mail
Emergency telephone number CHEMTREC US: 1-800-424-9300, International: +1 703-527-3887
 Emergency Tel: 13 11 26 (Poison Information Centre)

Recommended use and Limitations on use

Recommended use Sample.

2. Hazards identification

GHS classification

Physical hazards Not classified.
Health hazards Carcinogenicity (inhalation) Category 1A
 Specific target organ toxicity following repeated exposure (inhalation) Category 2 (Lung, Respiratory system)
Environmental hazards Not classified.

Label elements

Symbols



Signal word

Danger

Hazard statement

May cause cancer by inhalation. May cause damage to organs (Lung, Respiratory system) through prolonged or repeated exposure by inhalation.

Precautionary statements

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wear protective gloves/protective clothing/eye protection/face protection.
Response IF exposed or concerned: Get medical advice/attention.
Storage Store locked up.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

Substance or mixture Substance

Chemical property	CAS Number	Concentration (%)
Silicon dioxide	7631-86-9	100

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion Rinse mouth. Get medical attention if symptoms occur.
Potential delayed effects Dusts may irritate the respiratory tract, skin and eyes. Coughing. Discomfort in the chest. Shortness of breath.

Personal protection for first-aid responders	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Notes to physician	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire-fighting measures

Extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Extinguishing media to avoid	None known.
HAZCHEM Code Number	None.
Specific hazards during fire fighting	During fire, gases hazardous to health may be formed.
Special fire fighting procedures	Use water spray to cool unopened containers.
Protection of fire-fighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Hazards from combustion products	None.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. For personal protection, see section 8.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
Spill cleanup methods	Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Collect in containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Handling

Precautions	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimise dust generation and accumulation. Do not breathe dust.
Safe handling advice	Should be handled in closed systems, if possible. Observe good industrial hygiene practices. Use personal protection recommended in Section 8 of the SDS.
Prevention of fire and explosion	Should be handled in closed systems, if possible.
Local and general ventilation	Provide appropriate exhaust ventilation at places where dust is formed.

Storage

Suitable storage conditions	Store locked up. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
Incompatible materials	For further information, please refer to section 10.
Safe packaging materials	Store in original tightly closed container.

8. Exposure controls/personal protection

Workplace exposure limits

New Zealand. WES. (Workplace Exposure Standards)

Material	Type	Value	Form
Silicon dioxide (CAS 7631-86-9)	TWA	0.1 mg/m ³	Respirable dust.

US. ACGIH Threshold Limit Values

Material	Type	Value	Form
Silicon dioxide (CAS 7631-86-9)	TWA	0.025 mg/m ³	Respirable fraction.

UK. EH40 Workplace Exposure Limits (WELs)

Material	Type	Value	Form
Silicon dioxide (CAS 7631-86-9)	TWA	0.1 mg/m ³	Respirable.

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Material	Type	Value	Form
Silicon dioxide (CAS 7631-86-9)	TWA	0.1 mg/m ³	Respirable dust.

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Material	Type	Value
Silicon dioxide (CAS 7631-86-9)	TWA	0.1 mg/m ³

Biological limit values	No biological exposure limits noted for the ingredient(s).
Engineering controls	Should be handled in closed systems, if possible. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn.
Personal protective equipment	
Respiratory protection	Wear respirator with dust filter.
Hand protection	No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.
Skin protection	No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.
Eye/face protection	Risk of contact: Wear safety glasses with side shields (or goggles).
Radioactive or thermal hazards	Follow standard monitoring procedures.
Hygiene measures	Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Powder.
Colour	White.
Odour	Odourless.
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	1710 °C (3110 °F)
Boiling point, initial boiling point, and boiling range	2230 °C (4046 °F)
Flash point	Not applicable.
Auto-ignition temperature	Not applicable.
Flammability (solid, gas)	Non flammable.
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Relative density	Not available.
Density	2.20 - 2.60 g/cm ³
Solubility(ies)	
Solubility (water)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not applicable.

Decomposition temperature	Not available.
Viscosity	Not applicable.
Other data	
Explosive properties	Not explosive.
Molecular formula	O ₂ Si
Oxidising properties	Not oxidising.

10. Stability and reactivity

Reactivity	Stable at normal conditions.
Stability	Material is stable under normal conditions.
Conditions to avoid	Avoid dust formation. Contact with incompatible materials.
Incompatible materials	Strong oxidising agents. Hydrofluoric acid. Magnesium.
Hazardous decomposition products	No hazardous decomposition products are known.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
Skin contact	Dust or powder may irritate the skin.
Eye contact	Dust may irritate the eyes.
Acute toxicity	Not expected to be acutely toxic.
Routes of exposure	Inhalation. Skin contact. Eye contact.
Symptoms	Dusts may irritate the respiratory tract, skin and eyes. Coughing. Shortness of breath. Discomfort in the chest. Prolonged exposure may cause chronic effects.
Skin corrosion/irritation	Dust or powder may irritate the skin.
Serious eye damage/eye irritation	Dust may irritate the eyes.
Respiratory sensitizer	Due to partial or complete lack of data the classification is not possible.
Skin sensitizer	This product is not expected to cause skin sensitisation.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	May cause cancer by inhalation.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Silicon dioxide (CAS 7631-86-9)	1 Carcinogenic to humans.
Toxic to reproduction	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	May cause damage to organs (Lung, Respiratory system) through prolonged or repeated exposure by inhalation.
Aspiration hazard	Due to the physical form of the product it is not an aspiration hazard.
Chronic effects	Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material.
Relevant negative data	Not available.

12. Ecological information

Ecotoxicity	Not expected to be harmful to aquatic organisms.
Persistence and degradability	Not applicable.
Bioaccumulation	The product is not bioaccumulating.
Partition coefficient n-octanol/water (log K_{ow})	Not available.
Bioconcentration factor (BCF)	Not available.
Mobility	The product is insoluble in water.
Other hazardous effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Dispose of contents/container in accordance with local/regional/national/international regulations. When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste.

Special precautions Dispose in accordance with all applicable regulations.

14. Transport information

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

Applicable regulations New Zealand Code of Practice for the Preparation of Safety Data Sheets (SDS) [No. HSNO CoP 8-1 09-06].
HSNO: 6.7A, 6.9B

New Zealand Inventory of Chemicals (NZIoC): Registration status
Silicon dioxide (CAS 7631-86-9) HSNO Approved

16. Other information

References ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity
National Toxicology Program (NTP) Report on Carcinogens

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