# **E VIDENT**

# SAFETY DATA SHEET

1. Identification

**GHS** product identifier **Blank** 

Other means of identification

Part #: 930001 **Product code** 

Recommended use Sample. **Recommended restrictions** None known.

**Manufacturer information** 

**Supplier Evident Scientific** 

**Address** 48 Woerd Ave. Waltham, MA 02453, USA

+1 781-419-3900 **Telephone** 

**FAX** 

**Emergency telephone CHEMTREC** 

number

US: 1-800-424-9300, International: +1 703-527-3887

2. Hazard(s) identification

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



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** 

Obtain special instructions before use. Do not handle until all safety precautions have been read Prevention

and understood. Do not breathe dust. Wear protective gloves/protective clothing/eye

protection/face protection.

IF exposed or concerned: Get medical advice/attention. Response

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification

None known.

**Supplemental information** None.

3. Composition/information on ingredients

**Substance** 

**Chemical name CAS** number Common name and Content in synonyms percent (%) Silicon dioxide 7631-86-9

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

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. Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists. Eye contact

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Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important

symptoms/effects, acute and

delayed

Dusts may irritate the respiratory tract, skin and eyes. Coughing. Discomfort in the chest.

Shortness of breath.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information** 

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.

# 5. Fire-fighting measures

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

#### 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 of the SDS.

Methods and materials for containment and cleaning up

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.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Should be handled in closed systems, if possible. Minimise dust generation and accumulation. Do not breathe dust. Provide appropriate exhaust ventilation at places where dust is formed. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see section 10 of the SDS).

# 8. Exposure controls/personal protection

# Occupational exposure limits

South Africa. Control Limits. Regulations for Hazardous Chemical Substances, Table 1

Material	Туре	Value	Form
Silicon dioxide (CAS 7631-86-9)	TWA	0.4 mg/m3	Respirable dust.

**Biological limit values** 

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

Appropriate 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.

#### Individual protection measures, such as personal protective equipment

Risk of contact: Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Hand protection No specific hygiene procedures noted, but good personal hygiene practices are always advisable,

especially when working with chemicals.

No skin protection is ordinarily required under normal conditions of use. In accordance with good Other

industrial hygiene practices, precautions should be taken to avoid skin contact.

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Respiratory protection Wear respirator with dust filter.

No protection is ordinarily required under normal conditions of use. Thermal hazards

**General hygiene** considerations

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 Powder. **Form** White. Colour Odour Odourless. **Odour threshold** Not available. Not applicable. 1710 °C (3110 °F) Melting point/freezing point 2230 °C (4046 °F) Initial boiling point and boiling

range

Not applicable. Flash point **Evaporation rate** Not applicable. Non flammable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not applicable.

Flammability limit - upper

Not applicable.

(%)

**Explosive limit - lower (%)** Not available. Explosive limit - upper Not available.

(%)

Vapour pressure Not applicable. Not applicable. Vapour density Not available. Relative density

Solubility(ies)

Solubility (water) Insoluble in water. **Partition coefficient** Not applicable.

(n-octanol/water)

**Auto-ignition temperature** Not applicable. **Decomposition temperature** Not available. Not applicable. **Viscosity** 

Other information

2.20 - 2.60 g/cm3 Density **Explosive properties** Not explosive.

Molecular formula O2Si

Not oxidising. **Oxidising properties** 

#### 10. Stability and reactivity

Stable at normal conditions. Reactivity

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid dust formation. Contact with incompatible materials. Incompatible materials Strong oxidising agents. Hydrofluoric acid. Magnesium. Hazardous decomposition No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation Dust may irritate respiratory system. Prolonged inhalation may be harmful.

Blank SDS South Africa 932246 Version #: 02 Revision date: 22-November-2022 Issue date: 08-February-2016 3/5 **Skin contact** Dust or powder may irritate the skin.

**Eye contact** Dust may irritate the eyes.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Dusts may irritate the respiratory tract, skin and eyes. Coughing. Shortness of breath. Discomfort

in the chest. Prolonged exposure may cause chronic effects.

Information on toxicological effects

Acute toxicity

Not expected to be acutely toxic.

Skin corrosion/irritation

Dust or powder may irritate the skin.

Serious eye damage/eye

irritation

Dust may irritate the eyes.

Respiratory or skin sensitisation

**Respiratory sensitisation** Due to partial or complete lack of data the classification is not possible.

**Skin sensitisation** 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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Silicon dioxide (CAS 7631-86-9) 1 Carcinogenic to humans.

**US NTP Report on Carcinogens: Known carcinogen** 

Silicon dioxide (CAS 7631-86-9)

Known To Be Human Carcinogen.

**Reproductive toxicity**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.

# 12. Ecological information

**Ecotoxicity** Not expected to be harmful to aquatic organisms.

Persistence and degradability Not applicable.

Bioaccumulative potential The product is not bioaccumulating.

Mobility in soil No data available.

**Mobility in general** The product is insoluble in water.

Other adverse 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 instructions**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.

Local disposal regulations

Waste from residues / unused

products

Dispose in accordance with all applicable regulations.

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging**Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

**ADR** 

Not regulated as dangerous goods.

**RID** 

Not regulated as dangerous goods.

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### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

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

the IBC Code

# 15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Inventory name

Hazardous Substances Act, 1973 (Act No. 15 of 1973)

Not listed.

# International regulations

#### **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

#### **Montreal Protocol**

Not applicable.

#### **Kyoto protocol**

Not applicable.

#### **Basel Convention**

Not applicable.

Country(s) or region

#### **International Inventories**

Australia

Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Australian Inventory of Chemical Substances (AICS)

Toxic Substances Control Act (TSCA) Inventory

# 16. Other information

Issue date08-February-2016Revision date22-November-2022

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United States & Puerto Rico

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

**Disclaimer** Evident Scientific cannot anticipate all conditions under which this information and its product,

or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

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On inventory (yes/no)\*

Yes

Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).