SAFETY DATA SHEET

1. Identification

Product identifier: Blank
Other means of identification:
  Product code: Part #: 930001
Recommended use of the chemical and restrictions on use:
  Recommended use: Sample.
  Restrictions on use: Not available.
Details of manufacturer or importer
Manufacturer
  Supplier: Evident Australia PTY LTD
  Address: Level 4, 97 Waterloo Road, Macquarie Park NSW 2113 Australia
  Telephone: Tel.1800-844-211
  e-mail: CHEMTREC US: 1-800-424-9300, International: +1 703-527-3887
Emergency telephone number: Emergency Tel: 13 11 26 (Poison Information Centre)

2. Hazard(s) identification

Classification of the hazardous chemical
  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, including precautionary statements
  Hazard symbol(s):
  Health hazard:
  Signal word: Danger
  Hazard Statement(s):
    May cause cancer by inhalation. May cause damage to organs (Lung, Respiratory system) through prolonged or repeated exposure by inhalation.
  Precautionary Statement(s):
    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.
Other hazards which do not result in classification: None known.
Supplemental information: None.

3. Composition/information on ingredients

Substance: Blank

Version number: 0
Issue date: 08-February-2016
Revision date: 22-November-2022
Supersedes date: 01-August-2022

SDS Australia
932246 Version #: 03 Revision date: 22-November-2022 Issue date: 08-February-2016
Identity of chemical ingredients | CAS number and other unique identifiers | Concentration of ingredients
---|---|---
Silicon dioxide | 7631-86-9 | 100

4. First-aid measures

**Description of necessary 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.

**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.

**Symptoms caused by exposure**
Dusts may irritate the respiratory tract, skin and eyes. Coughing. Discomfort in the chest. Shortness of breath.

**Medical attention and special treatment**
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.

**Suitable extinguishing media**
None known.

**Unsuitable extinguishing media**
During fire, gases hazardous to health may be formed.

**Self-contained breathing apparatus and full protective clothing**
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special protective equipment and precautions for fire fighters**
Use water spray to cool unopened containers.

**Fire fighting equipment/instructions**
None.

**General fire hazards**
No unusual fire or explosion hazards noted.

**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 of the SDS.

**For non-emergency personnel**
Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

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

**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.

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 and personal protection

Control parameters

Follow standard monitoring procedures.

Occupational exposure limits

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

<table>
<thead>
<tr>
<th>Material</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon dioxide (CAS 7631-86-9)</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
<td>Respirable dust.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Material</th>
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<td>Silicon dioxide (CAS 7631-86-9)</td>
<td>TWA</td>
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<td></td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Material</th>
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<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon dioxide (CAS 7631-86-9)</td>
<td>TWA</td>
<td>0.025 mg/m³</td>
<td>Respirable fraction.</td>
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</tbody>
</table>

UK. EH40 Workplace Exposure Limits (WELs)

<table>
<thead>
<tr>
<th>Material</th>
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<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
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<td>Silicon dioxide (CAS 7631-86-9)</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
<td>Respirable.</td>
</tr>
</tbody>
</table>

Biological limit values

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

Control banding approach

No data available.

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, for example personal protective equipment (PPE)

Eye/face protection

Risk of contact: Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

Other

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.

Respiratory protection

Wear respirator with dust filter.

Thermal hazards

No protection is ordinarily required under normal conditions of use.

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)

Initial boiling point and boiling range: 2230 °C (4046 °F)
Flash point Not applicable.
Evaporation rate Not applicable.
Flammability (solid, gas) Non flammable.
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.
Vapour density Not applicable.
Relative density Not available.
Solubility(ies)
  Solubility (water) Insoluble in water.
Partition coefficient (n-octanol/water) Not applicable.
Auto-ignition temperature Not applicable.
Decomposition temperature Not available.
Viscosity Not applicable.
Other physical and chemical parameters
  Density 2.20 - 2.60 g/cm3
  Explosive properties Not explosive.
  Molecular formula O2Si
  Oxidising properties Not oxidising.

10. Stability and reactivity
Reactivity Stable at normal conditions.
Chemical stability Material is stable under normal conditions.
Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.
Conditions to avoid Avoid dust formation. Contact with incompatible materials.
Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information
Information on possible routes of exposure
  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.
  Ingestion Expected to be a low ingestion hazard.
Symptoms related to exposure Dusts may irritate the respiratory tract, skin and eyes. Coughing. Shortness of breath. Discomfort in the chest. Prolonged exposure may cause chronic effects.
Acute toxicity Not expected to be acutely toxic.
Skin corrosion/irritation Dust or powder may irritate the skin.
Serious eye damage/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.
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.

**ACGIH Carcinogens**

Silicon dioxide (CAS 7631-86-9) A2 Suspected human carcinogen.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

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

**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**

The product is insoluble in water.

**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 methods**

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.

**Residual waste**

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

**ADG**

Not regulated as dangerous goods.

**RID**

Not regulated as dangerous goods.

**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

**Safety, health and environmental regulations**

**National regulations**

No poison schedule number allocated. This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).
Australia Medicines & Poisons Appendix A
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix C
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix D
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix F
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix G
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 3
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 5
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 6
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 7
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9
Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)
Not listed.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)
Not listed.

National Pollutant Inventory (NPI) substance reporting list
Not listed.

Prohibited Carcinogenic Substances
Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)
Not listed.

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)
Not listed.

Restricted Carcinogenic Substances
Not regulated.

International regulations

Stockholm Convention
Not applicable.
Rotterdam Convention
Not applicable.

Kyoto protocol
Not applicable.

Montreal Protocol
Not applicable.

Basel Convention
Not applicable.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
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<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
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<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*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).

16. Other information

Issue date            08-February-2016
Revision date         22-November-2022

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.