

# Safety Data Sheet

Version 1.1

ClariVie® 44

Date Revised: 31:03:2020

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## 1. Identification

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### ClariVie® 44

**Manufacturer / Supplier:**

Science Developments Pty Ltd (ABN 96 001 815 363)  
Unit 1, 8 Turbo Road  
Kings Park NSW 2148 AUSTRALIA  
+61 (02) 9622 5185  
projects@scidev.com.au

**Emergency Information (24 h)**

**Within Australia:** 1800 033 111 (Toll Free)

**Outside Australia:** +61 3 9663 2130

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## 2. Hazard(s) Identification

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The solid product as supplied is classified as non-Hazardous. This product contains crystalline silica and Crystalline silica dust is classified as Hazardous.

**Relevant Routes of Exposure:**

Eye contact, skin contact, inhalation, and ingestion.

**Effects Resulting from Eye Contact:**

Exposure to airborne dust may cause immediate or delayed irritation or inflammation. Eye contact by large amounts of dry powder or splashes of wet ClariVie® 44 dust may cause eye irritation.

**Effects Resulting from Skin Contact:**

Direct contact may cause irritation by mechanical abrasion.

**Effects Resulting from Inhalation:**

This product contains crystalline silica and a proportion of the fine dust in/on the supplied product may be respirable crystalline silica. Danger of serious damage to health by prolonged exposure through inhalation

**Effects Resulting from Ingestion:**

Although small quantities of dust are not known to be harmful, ill effects are possible if larger quantities are consumed.

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## 3. Composition and Information on Ingredients

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**Chemical nature:**

Inorganic chemical mixture

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## **Hazardous Ingredients:**

Crystalline silica – 0.038% by weight

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## **4. First Aid Measures**

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### **Eyes:**

Eye Flush thoroughly with flowing water, while holding eyelids open, for 15 minutes to remove all traces. If symptoms such as irritation or redness persist, seek medical attention.

### **Skin:**

Remove heavily contaminated clothing. Wash off skin thoroughly with water. Use a mild soap if available. Shower if necessary. Seek medical attention for persistent redness, irritation or burning of the skin.

### **Inhalation of Airborne Dust:**

Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have a qualified person give oxygen through a face mask if breathing is difficult. If irritation persists seek medical attention.

### **Ingestion:**

Rinse mouth and lips with water. Do not induce vomiting. If symptoms persist, seek medical attention.

### **First Aid Facilities:**

Eye wash and normal washroom facilities.

### **Advice to Doctor:**

Treat symptomatically or consult a Poisons Information Centre

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## **5. Fire Fighting Measures**

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### **Extinguishing Equipment:**

Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

### **Hazards arising from substance:**

Non-combustible material.

### **Protective equipment:**

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

### **Hazardous Decomposition Products:**

Decomposition products may include the following materials: carbon oxides (CO and CO<sub>2</sub>), nitrogen oxides

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## 6. Accidental Release Measures

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Dust is best cleaned up by vacuum device to avoid making dust airborne. Wetting down before sweeping up dust may be a useful control measure.

Recommendations on Exposure Controls / Personal Protection (see Section 8 below) should be followed during spill clean-up if conditions are dusty.

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## 7. Handling and Storage

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### Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

### Information about fire and explosion protection:

No special measures required.

### Storage:

Storage should be undercover and out of rain or wet conditions

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## 8. Exposure Controls and Personal Protection

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The following applies to dust from this product:

### Exposure Limits

National Occupational Exposure Standard (NES) Australian Safety and Compensation Commission ASCC (formerly NOHSC). Exposure to dust should be kept as low as practicable, and below the following NES:

- Crystalline silica (quartz): 0.1 mg/m<sup>3</sup> TWA (time-weighted average) as respirable dust.
- Total dust (of any type, or particle size): 10 mg/m<sup>3</sup> TWA

### Engineering Controls

All work should be carried out in such a way as to minimise dust generation, and exposure to dust. Dust extraction and collection may be used, if necessary, to control airborne dust levels. Work areas should be cleaned regularly.

### Personal Protection:

Skin – ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking or using the toilet. Remove all contaminated clothing. Wash gently and thoroughly with tepid water and non-abrasive soap. If irritation develops and persists seek medical attention.

Eyes – safety glasses with side shields or safety goggles (AS/NZ 1336) or a face shield should be worn.

Respiratory – where engineering and handling controls are not enough to minimise exposure to total dust and to respirable crystalline silica, personal respiratory protection may be required.

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## 9. Physical and Chemical Properties

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<b>Odour</b>	No distinct odour
<b>Physical state</b>	Beige or nearly white, odorless, crystalline solid
<b>Solubility in water</b>	Negligible
<b>Vapor pressure</b>	Not applicable
<b>Vapor density</b>	Not applicable
<b>Boiling point</b>	Not applicable (i.e., > 1000 C)
<b>Melting point</b>	Not applicable
<b>Specific gravity (H2O = 1.0)</b>	2.45
<b>Evaporation rate</b>	Not applicable

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## 10. Stability and Reactivity

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**Stability:**

Chemically stable.

**Conditions to avoid:**

Dust generation.

**Incompatibility:**

None.

**Hazardous decomposition:**

None

**Hazardous Polymerization:**

None.

Crystalline silica is stable, compatible with other materials, does not polymerise, and will not decompose into hazardous by-products.

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## 11. Toxicological Information

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**Health Effects:**

Swallowed – unlikely under normal industrial use. Mildly abrasive to mouth and throat if swallowed.

Eyes – dust is irritating to the eyes. Exposure to dust may aggravate pre-existing eye conditions.

Skin – dust may be mildly irritating and drying to the skin due to its physical characteristics.

Inhaled – dust is mildly irritating to the nose, throat and respiratory tract and may cause coughing and sneezing. Pre-existing upper respiratory and lung diseases including asthma and bronchitis may be aggravated. Inflammation of lining tissue of the respiratory system may follow repeated exposure to high levels of dust with increased risk of bronchitis and pneumonia. Long term occupational over-exposure or prolonged breathing-in (or inhalation) of crystalline silica dust at levels above the NES carries the risk of causing serious and irreversible lung disease, including bronchitis, and silicosis (scarring of the lung), including acute and/or accelerated silicosis.

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## 12. Ecological Information

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**Ecotoxicity:**

Poses no ecological risk.

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## 13. Disposal Considerations

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Can be treated as a common waste for disposal or dumped into a landfill site in accordance with local authority guidelines. Measures should be taken to prevent dust generation during disposal and exposure and personal precautions should be observed (see above). Wear sufficient respiratory protection. Dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container for reuse.

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## 14. Transport Information

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**Hazardous materials description/proper shipping name:**

Classified as non-Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**Hazard class:**

Not applicable

**Identification number:**

Not applicable.

**Required label text:**

Not applicable.

**Hazardous substances/reportable quantities (RQ):**

Not applicable.

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## 15. Regulatory Information

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**Classification:**

Not classified as hazardous

Crystalline silica in the form of respirable dust is classified as Hazardous according to the Australian Safety and Compensation Commission ASCC (formerly NOHSC) Approved Criteria for Classifying Hazardous Substances [NOHSC:1008] 3rd Edition

Exposures by inhalation to high levels of dust may be regulated under the Hazardous Substances Regulations (State and Territory) as they are applicable to Respirable Crystalline Silica, requiring exposure assessment, and control of inhalation exposure below the NES.

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## 16. Other Information

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This SDS summarises to our best knowledge at the date of this issue the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Science Developments Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact Science Developments Pty Ltd as per the contact details on page 1.

All the constituents of this material are listed on the Australian Inventory of Chemicals Substances (AICS).