

OXYLYSE® OXYGRASS PRO

SAFETY DATA SHEET

1 - PRODUCT IDENTIFICATION

PRODUCT TYPE: GROUND SILICA

SUPPLIER::

OXYGENIA AMERICA INC.
34-1, DES SEIGNEURS, LEVIS, QUEBEC, CANADA, G6Z 7P3
Web Site :www.oxygeniaprocess.com
Email : info@oxygeniaprocess.com

2 - COMPOSITION / COMPONENT INFORMATION

Type: Quartz

Synonyms: Silica flour C.A.S.14808-60-7

Chemical name: SiO₂

Components contributing to hazards:

- **impurities:** not applicable
- **additives:** not applicable
- **components:** Silica is considered as a hazardous product for its fraction inferior to 10 microns.

3 - IDENTIFICATION DES DANGERS

Main hazards:

- **Health:** inhalation of alveolar crystalline silica may lead to a risk of silicosis.
- **Environment:** none
- **Physical and chemical hazards:** none
- **Specific hazards:** silicosis
- **Main symptoms:** Silicosis is generally associated with coughing and breathlessness symptoms.
- **Labelling:**
 - **Bulk:** not applicable
 - **Bags:** mention "DO NOT INHALE DUST"

4 - FIRST AID

- **Inhalation:** seek medical advice
- **Contact with skin:** wash with water, but not hazardous
- **Contact with eyes:** wash with water
- **Ingestion:** seek medical advice
- **Actions to avoid:** none
- **Specific protections for rescuers:** none
- **Instructions for physician:** product type

5- FIRE FIGHTING MEASURES

- **Extinguishing means:** not applicable
 - **Specific hazards:** not applicable
 - **Specific methods of intervention:** not applicable
 - **Employee protection:** not applicable
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6 - ACCIDENTAL RELEASE MEASURES

- **Individual precautions:** Wear dust mask and safety glasses
- **Environmental protection precautions:** none
- **Cleaning method:** gathering through vacuuming

7 - HANDLING AND STORAGE

- **Technical measures, precautions and recommendations for use:** The material may be used preferably by wet method, or dry method in a process fitted with a vacuum system. Dust in suspension must be vacuumed at their point of emission.
- **Storage:**
 - **Technical measures and storage conditions:** Capture dust during silo storage or when using bags.
- **Incompatible materials:** none
- **Packaging materials:** Paper bag

8 - EXPOSURE INSPECTION / PERSONAL PROTECTION

- **Technical measures:** Ensure the workplace is perfectly dedusted.
- **Inspection parameters:** In areas of specific pollution, the mean total and alveolar dust concentrations in the atmosphere inhaled per person, assessed over an eight-hour period, must not exceed 10 and 5 mg/m³ respectively. (Art. R 232.5.5. of the Labour Code). Order no. 97-331 of 10/4/97 defines an exposure index to be met in the event of inhalation of alveolar dust containing a mixture of non-silica dust and crystalline silica particles.

$$\frac{C_{ris} + C_q + C_c + C_t}{V_{ns} \cdot 0.1 \cdot 0.05 \cdot 0.05} \text{ must be } < 1$$

- Crys/V_{ns} is the measured non-silica dust concentration ratio.
- C_q/0.1, C_c/0.05 and C_t/0.05 are the quartz, cristobalite and tridymite concentration ratios.
- V_{ns} is the mean limit value for alveolar non-silica dust concentration (5 mg/ml).
- **Personal protective equipment:**
 - **Breathing apparatus:** wear a mask
 - **Hand protection:** none
 - **Eye protection:** glasses
 - **Protection of skin and body other than hands:** none
 - **Hygienic measures:** none

9 - PHYSICAL AND CHEMICAL PROPERTIES

- **Physical state :** solid
- **Form:** crystalline
- **Color:** white
- **Odor:** none
- **PH:** 7
- **Melting température:** 1600 °C
- **Boiling température :** 2230 °C
- **Decomposition température:** none
- **Flash point:** none
- **Self-ignition température:** not applicable
- **Explosive properties:** none
- **Vapour pressurer:** not applicable
- **Vapour density:** not applicable
- **Density:** absolute 2,650 g/cm³
- **Apparent:** S4 1,15 SS 1,05 S6 1,00 S7 1,00 S10 0,92 S400 0,75
- **Solubility:** Insoluble in water, soluble in hydrofluoric acid
- **Partition coefficient :** n/octanol/eau: not applicable

10 – STABILITY AND REACTIVITY

- **Stability:** none
 - **Conditions to avoid:** none
 - **Materials to avoid:** none
 - **Hazardous breakdown products:** none
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11 - TOXICOLOGICAL INFORMATION

- **Acute toxicité:** no
 - **Local effect:** negative
 - **Sensitisation:** negative
 - **Chronic toxicity:** Silicotic (see table 25 of occupational diseases)
 - **Long term toxicité :** Risk of silicosis in the event of prolonged exposure in a polluted environment.
 - **Specific effects:** none
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12 – ECOLOGICAL INFORMATION

- **Mobility:** none
 - **Persistence/ degradability:** négative
 - **Biocumulation:** none
 - **Ecotoxicity:** none
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13 – DISPOSAL CONSIDERATIONS

Not applicable

14 - TRANSPORT CONSIDERATIONS

- **Land routes:** none
 - **River routes:** none
 - **Maritime routes:** non
 - **Air routes:** none
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15 – REGULATORY INFORMATIONS

- **Community regulations:** none
 - **Ground silica is classified hazardous in its fraction inferior to 10 microns**
 - **Bags identification:** "DO NOT INHALE DUST "
 - **Regulatory texts:** see appendix
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16 - OTHER INFORMATIONS

This sheet completes, but does not replace the technical data sheet for use. The information herein is based on the state of our knowledge of the concerned product at the date mentioned. Furthermore, users' attention is drawn to the potential risks when the product is used for purposes other than that for which it was designed. It does not, under any circumstances, release the user from his/her duty to know and apply all texts governing its use. He/she shall be sole responsible for taking the precautions concerning his/her use of the product.

REGULATORY TEXTS

Order N° 50-1289 of 16/10/1950	Pertaining to public administration regulations concerning specific medical prevention measures for occupational silicosis.
Order of 17/O1/1955	Defining the list of industrial activities falling under order no. 50-1289 of October 16th 1950 pertaining to public administration regulations concerning specific medical prevention measures for occupational silicosis.
Order of 30/11/1956	Pertaining to specific medical prevention measures for occupational silicosis in mines, and quarries.
Order of 06/06/69	Pertaining to public administration regulations concerning specific protective measures for workers applicable to stripping, etching or sand blasting work.
Memorandum of 08/03/72	Pertaining to the application of order no. 69-558 of June 6th 1969 pertaining to public administration regulations concerning specific protective measures for workers applicable to stripping, etching or sand blasting work.
Order of 11/07/1977	Defining the list of tasks requiring special medical surveillance.
Memorandum n° 10 of 29/04/1980	Pertaining to application of the order of July 11th 1977 defining the list of tasks requiring special medical surveillance.
Order of Concil of 27/11/1980	Concerning the protection of worker from risks associated with exposure to chemical, physical and biological agents during work.
Memorandum of 19/07/1982	Pertaining to admissible values for the concentrations of certain hazardous substances in the workplace atmosphere.
Order of 07/12/84	Completing the Labour Code and defining the rules pertaining to the aeration and air purification of workplaces that must be met by project owners constructing or developing buildings intended for industrial, sales or agricultural activities.
Order of 14/O1/1987	Pertaining to informing users concerning the presence of free silica in abrasives intended for stripping, etching or sand blasting operations.
Order n° 87-200 of 25/03/1987	Modifying the provisions of the labour code (second part: order in State council) and pertaining to safety data sheets.
Order of 05/O1/1993	Defining the methods of safety data sheet creation and transmission.
Order n° 97-331 of 10/04/97	Pertaining to the protection of certain workers exposed to the inhalation of silica-containing dust at their workplace.