

QUARTZ- SILICA SAND**Safety data sheet****SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Code: **QUARZO-M 1-2**
Product name: **SILICA QUARTZ 1-2 mm IN 25 KG BAGS**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: Flushing material for filtrations, additive to the production of cementitious aggregates and concrete, plastic stickers, ceramics, regrinding (or crushing again), glass, foundry materials

1.3 Details of the supplier of the safety data sheet

Company name: **IDEAL WORK SRL**
Address: **Via Kennedy, 52**
Place and country: **31030 Vallà di Riese Pio X (TV)
Italy**
tel. **0423 /4535**
fax **0423 /748429**

e-mail address for a competent person responsible for the safety data sheet: sicurezza@idealwork.it

1.4 Emergency telephone number

For information in an emergency

Poison center:
National Poisons Information Service (Birmingham Unit) City Hospital
Dudley Rd Birmingham
Telephone: +44 121 507 4123
Fax: +44 121 507 55 88
Emergency telephone: 844 892 0111

SECTION 2. Hazards identification.**2.1 Product Classification**

This product does not meet the criteria for classification as dangerous according to Directive No. 67/548/EEC.

Prolonged and/or massive inhalation of crystalline silica dust, generated as a result of movement or treatment of this substance, can cause pulmonary fibrosis, commonly referred to as silicosis. Main symptoms of silicosis are cough and lack of breath or dyspnea. Occupational exposure to breathable silica dust should be monitored and controlled. It is therefore recommended to take the utmost care while moving and handling this product in order to avoid generation of dust emissions.

This product contains less than 1% of breathable crystalline free silica, therefore it is not classified for the purposes of European Regulation (EC) No. 1272/2008 and Directive No. 67/548/EEC.

2.2 Product Labelling: None

SECTION 3. Composition/information on ingredients.

Main constituent and mineralogical characterization:
Quartz, Crystalline Silica - Chemical Formula: SiO_2
Average percentage of quantity: 95-97.5%

No. EINECS: 238-878-4
No. CAS: 14808-60-7

SECTION 4. First aid measures.**4.1 Description of First Aid Measures**

Eye contact: Rinse thoroughly with plenty of water (if signs of irritation persist, contact your doctor.)

Inhalation: No special actions shall be taken, however, it is recommended to take the exposed person outdoors and in a ventilated place.

Ingestion: No specific measures are required.

Skin contact: No specific measures are required, however, it is recommended to wash the exposed area thoroughly with clean water.

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There are no other special actions to be taken for rescuers.
No delayed pathologies and symptoms have been detected with regard to exposure.

SECTION 5. Firefighting measures.

Non-combustible material and there are no dangerous thermal decompositions. No specific fire-fighting protection systems are required.

SECTION 6. Accidental release measures.

- 6.1 Precautions and procedures in case of emergency
Avoid generating dust and its spread in the air. Wear, if exposure limit values are exceeded and whenever good practice advice is given, appropriate respiratory protective equipment (RPE) for the respiratory tract in accordance with laws and regulations in force.
- 6.2 Environmental precautions No specific indication
- 6.3 Methods for containment or possible clean-up or reclamation
Use water-based washing systems to minimize dust dispersion in air or appropriate and dedicated suction systems. It is recommended to avoid any kind of dry cleaning and containment.

SECTION 7. Handling and storage.

- 7.1 Indications for proper handling
Avoid generating dust dispersed in air. Provide adequate ventilation or suction systems in areas and workplaces where dust might be generated. In case of insufficient ventilation, wear suitable Respiratory Protective Equipment (RPE) for the respiratory tract in accordance with applicable laws and regulation.
Do not eat, drink, or smoke in the work areas used to store and handle the product. Wash your hands and exposed body parts once you have abandoned the dedicated work areas.
The Manufacturer also invites you to consult the Good Practice Guidelines drawn up on 25th April 2006 by the European Social Dialogue on breathable crystalline silica, which can be consulted through NEPSI (European Network for Silica) and which has become the basis for current regulation of silica products.
- 7.2 Storage instructions
Reduce and minimize generation of dust dispersed in air and prevent dispersion by third causes (e.g.: wind) during unloading and loading operations. Keep loading containers closed and/or under suction as close as possible.
- 7.3 Specific end-uses
Please contact your supplier and follow his directions

SECTION 8. Exposure controls/personal protection.

- 8.1 Occupational Exposure Limit Values (OELs):
Respect the legal Workplace Exposure Limits (WELs) by considering all of generating dusts.. Occupational Exposure Limit Values (OELs) for breathable crystalline silica is 0.025 mg/m³ measured as TWA (Time-Weighted Average) concentration of a worker's exposure during an 8hour workday/workshift.
- 8.2 Exposure Controls:
Technical Checks:
Use local containment facilities or suction ventilations. Provide technical control systems to maintain dust levels within the prescribed limits. Provide, wherever possible, organizational measures in order to contain employee exposures.
- Individual protection measures:
- Protect the respiratory tract: In the event of prolonged exposure to airborne dusts dispersed in the air, wear a respiratory protective device complying with applicable regulations.
 - Eye protection: Wear safety goggles with side shields in cases where there is a risk factor for eye injuries due to penetration.
 - Hand protection: For workers suffering from sensitive skin or atopic dermatitis (eczema), it is recommended to wear adequate protection. Avoid handling material with bare hands to prevent abrasion cuts. Wash your hands at the end of each work shift.

Environmental controls: Observation of limits on emissions released into the atmosphere and, where existing, monitoring of industrial discharges.

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SECTION 9. Physical and chemical properties.

- General and basic information: - Appearance:
- Solid
- Granule shape: angular
 - Colour: grey / white
 - Odour: none
 - Ph: 7
 - Melting point: 1500-1700°C
 - Boiling point: not relevant
 - Flammability: Non-flammable
 - Relative density: 2.6-2.8 gr/cm³
 - Granulometry: Variable according to the type of product concerned - Solubility in water: negligible
 - Acid Solubility: Yes

SECTION 10. Stability and reactivity.

- Processing Products:
In conditions of use which cannot be estimated a priori, especially for high temperatures, alphaquartz might be converted into cristobalite.
- Hazardous decomposition products: None

SECTION 11. Toxicological information.

Given that the European Community does not classify crystalline silica (alpha-quartz) as a dangerous and/or carcinogenic substance at the time of drafting this Material Safety Data Sheet (MSDS), and at present, there are no requests for modifications by Member States, it is notified as follows:

A. IOM (Istitute of Occupational Medicine), relating to the human carcinogenicity of crystalline silica, has concluded that "the data resulting from the epidemiological investigation performed are inadequate to determine whether crystalline silica is to be considered carcinogenic to humans". "Furthermore", it is possible to notice a predisposition to the development of lung cancer in subjects with silicosis even though it is not possible to determine a direct effect of silica in all of this" (Scientific Opinion on the Health Effects of Airbone Crystalline Silica, A. Pilkington, W. McLaren, A. Scarl, JM Davis, JF Hurlay, AA Soutar, JC Pairon, JOM Report TM/96/08, Occupational Medicine Institutions, Edimburgh Jan.99.)

On Apr 25th, 2006, a European Social Dialogue Agreement (voluntary) on Silica was formed on prevention/preventive modalities to be taken in order to prevent risks arising from exposure to free breathable crystalline silica dusts.

A prolonged and/or massive exposure to breathable dust containing quartz can cause silicosis and pulmonary fibrosis due to deposition of fine breathable particles of crystalline silica. According to the state of the art, worker protection against silicosis would be consistently ensured by respecting the current occupational exposure limits (OELs.)

SECTION 12. Ecological information.

No adverse effects are known

SECTION 13. Disposal considerations.

Unused product:
Avoid dust leakage (see Section 11). Whenever possible, recycling is preferable to disposal at an authorized landfill. Respect all current legislation (Italian Legislative Decree No. 152/06 and subsequent amendments and additions.)

SECTION 14. Transport information.

This product must always be transported with suitable vehicles to avoid dispersion in the environment and atmospheric pollution

SECTION 15. Regulatory information.

Reference is made to the following regulations and their subsequent amendments and additions:

- Italian Legislative Decree No. 81/08 (Health and Safety in the workplace)
- Italian Presidential Decree No. 1124/65 (Consolidated text of provisions on compulsory insurance against accidents at work (INAIL) and occupational diseases)

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- Italian Legislative Decree No. 475/82 (Personal Protective Equipment (PPE))
- Italian Legislative Decree No. 152/06 (Environmental Standards)
- Regulation (EC) No. 1907/2006 (Registration, Evaluation, Authorization and Restriction of Chemicals - REACH)
In accordance with Annex V Section 7 of this Regulation, the product is exempt from the obligation to register)
- Regulation (EC) No. 1272/2008 (Classification, Labelling and Packaging of Hazardous Substances)

SECTION 16. Other information.

Training

Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.

Liability:

The data provided in this safety data sheet (SDS) are consistent with the current state of our knowledge. However, we do not provide any warranty or statement as to their accuracy, reliability, and completeness. It is the user's responsibility to verify the suitability of such information with respect to their own specific uses.