



DISCOVER THE  
BEAUTY OF NATURE  
DISCOVER DIRESCO

MATERIAL SAFETY DATA SHEET



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## 1. PRODUCT & COMPANY IDENTIFICATION

<b>Product Name:</b>	Diresco®
<b>Product Use:</b>	Diresco® quartz surfaces are designed for indoor and outdoor use, particularly in kitchen and bathroom worktops, flooring, cladding and other similar uses.
<b>Company:</b>	Diresco NV Industrieweg-Noord 1134 3660 Opglabbeek Belgium +32 (0)89 85 69 44
<b>MSDS Revision Date:</b>	January 2018

## 2. HAZARDS IDENTIFICATION

There is no risk corresponding to the finished Diresco® product. However, dust originating from the fabrication process consists of respirable crystalline silica (SiO<sub>2</sub>). Read the following information carefully.

Hazard:



**Category 3 (Respiratory Tract Irritation)**  
**Category 1A (Carcinogenicity)**

H372 Causes damage to lungs through prolonged or repeated exposure (inhalation)

H335 May cause respiratory tract irritation

H350 May cause CANCER (inhalation)

Prevention:



P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust generated during the Fabrication Process, installation and removing/demolishing processes.

P264 Wash face and hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P284 Wear respiratory protection for particles (P3)

Inhalation: Do not breathe dust under any circumstance.

Workers who inhale very small crystalline silica particles are at increased risk of developing serious silica-related diseases. These tiny particles (known as “respirable” particles) can penetrate deep into workers’ lungs and cause silicosis, an incurable and sometimes fatal lung disease. Crystalline silica exposure also puts workers at risk for developing lung cancer, other potentially debilitating respiratory diseases such as chronic obstructive pulmonary disease (COPD), and kidney disease.

### 3. PRODUCT COMPOSITION

General description: The material is made up of approximately 97% Quartz/Silica Sand (CAS# 14808-60-7), >7% Vegetal Based Resin and >1% Pigment.



The end product is Greenguard, Greenguard Gold and NSF certified, and therefore, meets all rigorous and comprehensive standards for low emissions of volatile organic compounds (VOCs) into indoor air, and is acceptable for use in environments such as schools and healthcare facilities.

### 4. FIRST AID MEASURES



**Eye Contact:** Mineral dust may produce transitory mechanical irritation to skin and eyes. Wash eyes thoroughly with ample water for a duration of 15 minutes. Seek medical attention.

**Skin Contact:** Wash hands with soap and water.

**Inhalation:** Immediately move affected person to a well-ventilated area.

### 5. FIRE FIGHTING MEASURES

**Flash Point:** 490oC

**Fire-Resistant:** Class A2 – s1, d0 (EN-13501 - 1:2007 - TAB 1)

**Suitable Extinguishing Agents:** Use extinguishing measures appropriate to local circumstances/environment.

**Personal Protection Equipment:** Wear self-contained breathing apparatus for firefighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

The product does not represent risk of spillage.

### 7. HANDLING & STORAGE

**Handling:** Wear required safety gear. Understand and abide by all local safety regulations related to handling and working with quartz/heavy material.

Do not breathe dust generated during the Fabrication Process, installation and removing/demolishing processes.

**Storage:** Store properly in a closed and covered space. Avoid strong impacts that may cause the material to break. No special restrictions on storage with other products.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

There is no provision for any risk associated with the finished Diresco product in the CLP (EC) regulation no. 1272/2008.

However, dust originating from the fabrication process consists of respirable crystalline silica (SiO<sub>2</sub>).

Understand the applicable regulatory limits of exposure.

Engineering Controls: Provide appropriate exhaust ventilation at places where dust is formed.

### Personal Protective Equipment

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand Protection: Wear protective gloves when handling or working with product.

Eye Protection: Wear safety glasses when handling or working with product.

Skin Protection. Skin protection is not necessary but work clothes that prevent the contact of dust with skin is recommended. Wash hands and face with soap and water to remove dust before breaks and at end of the shift.

Work Clothes: do not clean up using compressed air, use vacuum cleaning methods.

Cleaning & Maintenance. Use of vacuum and/or water cleaning systems, avoid sweeping and the use of compressed air, which creates dust.

### Exposure Guidelines

PEL limits worker exposures to 50 micrograms of respirable crystalline silica per cubic meter of air (µg/m<sup>3</sup>), averaged over an eight-hour day. (These limits may be changed from time to time; you are required to follow local safety announcements.)

## 9. PHYSICAL & CHEMICAL PROPERTIES

**Form:** Solid

**Color:** Various

**Odour:** None

**pH:** No applicable data available

**Relative Evaporation Rate (butyl acetate=1):** No applicable data available

**Melting Point:** No applicable data available

**Freezing Point:** No applicable data available

**Boiling Point:** No applicable data available

**Flash Point:** 914 °F (490 °C)

**Auto-ignition Temperature:** No applicable data available

**Decomposition Temperature:** No applicable data available

**Flammability (solid, gas):** No applicable data available

**Vapour Pressure:** No applicable data available

**Relative Vapour Density at 20 °C:** No applicable data available

**Relative Density:** 2.3-2.4 (kg/liter or ton/m<sup>3</sup>) - EN-14617-1

**Solubility:** Insoluble

**Flexural Strength:** 50-74 (N/mm<sup>2</sup> or MPa) - EN-14617-2

**Log Pow:** No applicable data available

**Log Kow:** No applicable data available

**Viscosity, Kinematic:** No applicable data available

**Viscosity, Dynamic:** No applicable data available

**Explosive Properties:** No applicable data available

**Oxidising Properties:** No applicable data available

## 10. STABILITY & REACTIVITY

**Reactivity:** The product is stable under normal conditions of use, storage and transport.

**Physical Stability:** Avoid strong impacts that may cause the material to break.

**Decomposition Products:** Unknown

## 11. TOXICOLOGICAL INFORMATION

No acute or chronic effects are known from exposure to the intact product.

**Reactivity:** The product is stable under normal conditions of use, storage and transport.

**Physical Stability:** Avoid strong impacts that may cause the material to break.

**Decomposition Products:** Unknown

**Primary Routes of Exposure:** Inhalation and potential exposure to eyes, hands, lungs or other body parts if contact is made with dust emitted from the Fabrication Process.

**Acute Effects:** Breathing dust may cause acute mechanical respiratory irritation. Skin and eye contact may cause mechanical irritation.

**Respiratory Effects:** Crystalline Silica (SiO<sub>2</sub>) Exposure to respirable crystalline particles may cause silicosis, an incurable, progressively disabling and sometimes fatal lung disease. Titanium Dioxide (TiO<sub>2</sub>) May cause lung fibrosis and nuisance particulate accumulation in lungs.

## 12. ECOLOGICAL INFORMATION

Diresco® does not contain ecotoxins but due to its physical-chemical nature it inhibits the growth of microorganisms on its surface.

ISO 14001 Certification: Diresco® is granted the ISO 14001 certificate for Environmental Management Systems.

GREENGUARD Indoor Air Quality Certification & GREENGUARD GOLD Certification give assurance that Diresco® Quartz Surfaces are safe for indoor air quality, children and schools. Microbial Resistance Certification granted by the GREENGUARD Environmental Institute certifies the product to be resistant to surface molds, microbes, thus giving a guarantee of safety for environment and users.

ANSI Standard 051 – Food Equipment Materials granted by NSF proves the product to be safe for food contact.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Preferred options for disposal are (1) recycling, and (2) landfill. All disposal must be carried out in accordance with all the laws, requirements and guidelines applicable in the location of the user of Diresco® products.

## 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of land, air or sea transport regulations.

## 15. REGULATORY INFORMATION

### **HSNO (NZ) Status SARA 313 Regulated Chemical(s)**

Exempt: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **PA Right to Know Regulated Chemical(s)**

Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Quartz, Cristobalite

### **NJ Right to Know Regulated Chemical(s)**

Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Quartz, Cristobalite

### **California Prop. 65**

WARNING! This product contains a chemical or chemicals known to the State of California to cause cancer. Quartz, Cristobalite

## 16. OTHER INFORMATION

The information in this Safety Data Sheet is based on data available at the date of preparation of the document, which, to the best of our knowledge, was accurate and reliable. However, no warranty, implied or expressed, is given in relation to the accuracy of these data or the results to be obtained from the use thereof.

The provision of this information should not be construed as a recommendation to use any of our products in violation of any patent rights or in breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, we can accept no responsibility for any loss or damage caused by any person acting or refraining from action as a result of this information.

This Safety Data Sheet is written according to the CLP Regulation, (EC) No 1272/2008. Regarding health & safety information about respirable fraction of crystalline silica (SiO<sub>2</sub>), follow the requirements of International Labor Organization (<http://www.ilo.org>), Occupational Safety and Health Administration ([www.osha.org](http://www.osha.org)), US National Institute for Occupational Safety and Health (<http://www.cdc.gov/niosh/>) and the European Network for silica (<http://www.nepsi.eu>)