

**ZODIAQ® Quartz Surfaces**

Version 2.0

Revision Date 04/03/2014

Ref. 130000000849

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : ZODIAQ® Quartz Surfaces  
MSDS Number : 130000000849

Manufacturer : DuPont  
Building Innovations  
1007 Market Street  
Wilmington, DE 19898

Product Information : 1-302-774-1000  
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)  
Transport Emergency : CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

**SECTION 2. HAZARDS IDENTIFICATION**

## Emergency Overview

The product as such is not hazardous. The hazards of this product are associated mainly with its processing. Operations such as sawing, routing, drilling and sanding can generate dust. Dust generated during handling of Quartz Surfacing Products can contain particles of crystalline silica (quartz). Overexposure to airborne quartz can cause silicosis.

## Warning symptoms:

Symptoms of silicosis include coughing, difficulty breathing, wheezing and progressive impairment of lung function.

## Potential Health Effects

## Eyes

Quartz : Dust contact with the eyes can lead to mechanical irritation.

## Inhalation

Quartz : Gross overexposure may cause: Breathing difficulties, Fever, Cough, Lung damage, May be fatal if inhaled in large quantities..

## Repeated exposure



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Quartz : DuPont has classified this material as a known human carcinogen. May cause cancer after repeated inhalation of spray or dust. Adverse effects from repeated inhalation may include: Chronic lung disease with alterations in lung function or difficulty breathing

Target Organ  
Quartz : Lungs

Carcinogenicity Material	IARC	NTP	OSHA
Quartz	1	X	
Cristobalite	1	X	

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Quartz	14808-60-7	93 %
Non regulated ingredients		7 %

**SECTION 4. FIRST AID MEASURES**

- Skin contact : not applicable
- Eye contact : not applicable
- Inhalation : Move to fresh air.
- Ingestion : not applicable
- General advice : Never give anything by mouth to an unconscious person.



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**SECTION 5. FIREFIGHTING MEASURES**

Flammable Properties

Flash point : does not flash

Suitable extinguishing media : The product itself does not burn.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Firefighting Instructions : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Wear personal protective equipment.

Spill Cleanup : not applicable

Accidental Release Measures : not applicable

**SECTION 7. HANDLING AND STORAGE**

Handling (Personnel) : Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. Wash hands before breaks and at the end of workday.

Storage : None. No special restrictions on storage with other products.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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



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Personal protective equipment

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

Hand protection : Additional protection: Protective gloves

Eye protection : Safety glasses

Exposure Guidelines

Exposure Limit Values

Quartz

PEL:	(OSHA)	2.4 millions of particles per cubic foot of air	TWA
		Respirable.	
		Remarks	The exposure limit is calculated from the equation, $250/(\%SiO_2+5)$ , using a value of 100% SiO <sub>2</sub> . Lower percentages of SiO <sub>2</sub> will yield higher exposure limits.
PEL:	(OSHA)	0.1 mg/m <sup>3</sup>	TWA Respirable.
		Remarks	The exposure limit is calculated from the equation, $10/(\%SiO_2+2)$ , using a value of 100% SiO <sub>2</sub> . Lower percentages of SiO <sub>2</sub> will yield higher exposure limits.
PEL:	(OSHA)	0.3 mg/m <sup>3</sup>	TWA Total dust.
		Remarks	The exposure limit is calculated from the equation, $30/(\%SiO_2+2)$ , using a value of 100% SiO <sub>2</sub> . Lower values of % SiO <sub>2</sub> will give higher exposure limits.
TLV	(ACGIH)	0.025 mg/m <sup>3</sup>	TWA Respirable fraction.
AEL *	(DUPONT)	0.01 mg/m <sup>3</sup>	12 hr. TWA Respirable dust.
AEL *	(DUPONT)	0.02 mg/m <sup>3</sup>	8 hr. TWA Respirable dust.
Cristobalite			
PEL:	(OSHA)	5 mg/m <sup>3</sup>	8 hr. TWA Respirable fraction.
PEL:	(OSHA)	15 mg/m <sup>3</sup>	8 hr. TWA Total dust.



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PEL:	(OSHA)	0.05 mg/m3	8 hr. TWA Respirable dust.
PEL:	(OSHA)	1.2 millions of particles per cubic foot of air	TWA Respirable.
		Remarks	The exposure limit is calculated from the equation, $125/(\%SiO_2+5)$ , using a value of 100% SiO <sub>2</sub> . Lower values of % SiO <sub>2</sub> will give higher exposure limits.
PEL:	(OSHA)	0.05 mg/m3	TWA Respirable.
		Remarks	The exposure limit is calculated from the equation, $5/(\%SiO_2+2)$ , using a value of 100% SiO <sub>2</sub> . Lower percentages of SiO <sub>2</sub> will yield higher exposure limits.
PEL:	(OSHA)	0.15 mg/m3	TWA Total dust.
		Remarks	The exposure limit is calculated from the equation, $15/(\%SiO_2+2)$ , using a value of 100% SiO <sub>2</sub> . Lower values of % SiO <sub>2</sub> will give higher exposure limits.
TLV	(ACGIH)	0.05 mg/m3	8 hr. TWA Respirable fraction.
TLV	(ACGIH)	0.025 mg/m3	TWA Respirable fraction.
AEL *	(DUPONT)	0.01 mg/m3	12 hr. TWA Respirable dust.
AEL *	(DUPONT)	0.02 mg/m3	8 hr. TWA Respirable dust.

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: solid
Color	: various
Odor	: none
Density	: 2.2 - 2.4 g/cm3
Water solubility	: insoluble

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**SECTION 10. STABILITY AND REACTIVITY**

- Conditions to avoid : None reasonably foreseeable.
- Hazardous decomposition products : Other decomposition products: No decomposition if used as directed.
- Hazardous reactions : None reasonably foreseeable.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Quartz

- Oral LD50 : > 11,000 mg/kg , rat  
Bloody nasal discharge  
Weight loss
- Skin irritation : No skin irritation, rabbit
- Eye irritation : No eye irritation, rabbit
- Skin sensitization : Does not cause skin sensitisation., guinea pig
- Repeated dose toxicity : Inhalation  
rat
- Target Organs: Lungs  
Fluid retention in lungs (pulmonary oedema), lung effects,  
Inflammation, Chronic lung disease, Fibrosis
- Carcinogenicity : Human carcinogen.  
An increased incidence of tumours was observed in laboratory animals.  
An increased risk of cancer in humans has been shown in workplace-based studies.

**SECTION 12. ECOLOGICAL INFORMATION**



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Additional ecological information : This product has no known ecotoxicological effects.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal : Can be landfilled or incinerated, when in compliance with local regulations.

Environmental Hazards : Empty containers should be taken to local recyclers for disposal.

**SECTION 14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

**SECTION 15. REGULATORY INFORMATION**

HSNO (NZ) Status : Exempt

SARA 313 Regulated Chemical(s) : SARA 313: 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.

California Prop. 65 : WARNING! This product contains a chemical or chemicals known to the State of California to cause cancer. Quartz , Cristobalite

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

**SECTION 16. OTHER INFORMATION**

Before use read DuPont's safety information.



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