

**Corian® Quartz Surfaces previously known as Zodiac® Quartz Surfaces**

Version 2.1

Issue Date : 12/17/2018

Ref. 130000000849

Revision Date : 12/17/2018

This document is for information only, provided voluntarily and not subsequent to regulatory requirement.

PRODUCT AND CONTACT INFORMATION**Product identifier**

Product name : Corian® Quartz Surfaces previously known as Zodiac® Quartz Surfaces

Company : Production Agriscience Canada Company

P.O. Box 730, 7398 Queen's Line

Chatham, Ontario

N7M 5L1

Canada

Telephone : 1-800-387-2122

Emergency telephone number

Emergency contact : 1-800-441-3637 (24 hours)

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.

Physical and chemical properties

Form : solid

Color : various

Odor : none

Density : 2.2 - 2.4 g/cm³

Water solubility : insoluble

Stability and reactivity

Conditions to avoid : None reasonably foreseeable.

Hazardous decomposition products : No decomposition if used as directed.

Hazardous reactions : None reasonably foreseeable.

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INFORMATION ON INGREDIENTS

| Component | CAS-No. | Concentration |
|--------------|------------|---------------|
| Quartz | 14808-60-7 | 40 - 95 % |
| Cristobalite | 14464-46-1 | 40 - 50 % |

FIRST AID MEASURES**Description of first aid measures**

General advice : Never give anything by mouth to an unconscious person.

Inhalation : Move to fresh air.

Ingestion : Not applicable

Most important symptoms and effects, both acute and delayed

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

FIREFIGHTING MEASURES**Extinguishing media**

Suitable extinguishing media : The product itself does not burn.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Advice for firefighters

Special protective equipment : Wear self-contained breathing apparatus for firefighting if necessary.
for firefighters

ACCIDENTAL RELEASE MEASURES



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Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.

Environmental precautions

Environmental precautions : Not applicable

Methods and materials for containment and cleaning up

Methods for cleaning up : Not applicable

HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling : Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. Handling and processing operations should be conducted in accordance with best practices (e.g.NFPA-654).

Conditions for safe storage, including any incompatibilities

Requirements for storage : None.
areas and containers

Advice on common storage : No special restrictions on storage with other products.

EXPOSURE CONTROLS/PERSONAL PROTECTION

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 : Additional protection: Protective gloves

Eye protection : Safety glasses

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Exposure Guidelines

Exposure Limit Values

| Quartz | | | |
|---------------|----------|-------------------------|------------|
| TLV | (ACGIH) | 0.025 mg/m ³ | TWA |
| AEL * | (DuPont) | 0.01 mg/m ³ | 12 hr. TWA |
| AEL * | (DuPont) | 0.02 mg/m ³ | 8 hr. TWA |

| Cristobalite | | | |
|---------------------|----------|-------------------------|------------|
| TLV | (ACGIH) | 0.025 mg/m ³ | TWA |
| AEL * | (DuPont) | 0.01 mg/m ³ | 12 hr. TWA |
| AEL * | (DuPont) | 0.02 mg/m ³ | 8 hr. TWA |

| Octabenzene | | | |
|-------------------------------|--|--|--|
| No applicable data available. | | | |

* 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.

DISPOSAL CONSIDERATIONS**Waste treatment methods**

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

Contaminated packaging : Empty containers should be taken to local recyclers for disposal.

REGULATORY INFORMATION

Product meets the definition of an article as defined by CEPA and is therefore exempt from CEPA inventory requirements.

OTHER INFORMATION**Further information**



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Before use read DuPont's safety information.

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The information provided in this Article Information Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

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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 |
| Restrictions on use | : | Do not use product for anything outside of the above specified uses |
| Manufacturer/Supplier | : | DuPont Building Innovations 974 Centre Road Wilmington, Delaware 19805 |
| 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**Product hazard category**

Combustible dust

Carcinogenicity

Specific target organ toxicity -
repeated exposure

Category 1A

Category 1

Label content

Pictogram

:



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Signal word : Danger

Hazardous warnings : May form combustible dust concentrations in air.
May cause cancer.
Causes damage to organs through prolonged or repeated exposure. (Lungs)

Hazardous prevention measures : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use personal protective equipment as required.
IF exposed or concerned: Get medical advice/ attention.
Store locked up.
Dispose of contents/ container to an approved waste disposal plant.

Other hazards

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., If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 100 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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SECTION 4. FIRST AID MEASURES

| | |
|--|---|
| General advice | : Never give anything by mouth to an unconscious person. |
| Inhalation | : Move to fresh air. |
| Skin contact | : Not applicable |
| Eye contact | : Not applicable |
| Ingestion | : Not applicable |
| Most important symptoms/effects, acute and delayed | : Symptoms of silicosis include coughing, difficulty breathing, wheezing and progressive impairment of lung function. |
| Protection of first-aiders | : No applicable data available. |
| Notes to physician | : No applicable data available. |

SECTION 5. FIREFIGHTING MEASURES

| | |
|---|--|
| Suitable extinguishing media | : The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : No applicable data available. |
| Specific hazards | : No applicable data available. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary. |
| Further information | : No applicable data available. |

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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.
- Environmental precautions : Not applicable
- Spill Cleanup : Not applicable
- Accidental Release Measures : No applicable data available.

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. Handling and processing operations should be conducted in accordance with best practices (e.g.NFPA-654). Wash hands before breaks and at the end of workday.
- Handling (Physical Aspects) : No applicable data available.
- Dust explosion class : No applicable data available.
- Storage : None.
No special restrictions on storage with other products.
- Storage period : No applicable data available.
- Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 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 : Additional protection: Protective gloves
- Eye protection : Safety glasses


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**Exposure Guidelines
Exposure Limit Values**
Quartz

Permissible exposure limit: (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% SiO₂. Lower percentages of SiO₂ will yield higher exposure limits.

Permissible exposure limit: (OSHA) 0.1 mg/m³

TWA Respirable.

Remarks

The exposure limit is calculated from the equation, $10/(\%SiO_2+2)$, using a value of 100% SiO₂. Lower percentages of SiO₂ will yield higher exposure limits.

Permissible exposure limit: (OSHA) 0.3 mg/m³

TWA Total dust.

Remarks

The exposure limit is calculated from the equation, $30/(\%SiO_2+2)$, using a value of 100% SiO₂. Lower values of % SiO₂ will give higher exposure limits.

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.

Cristobalite

Permissible exposure limit: (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% SiO₂. Lower values of % SiO₂ will give higher exposure limits.

Permissible exposure limit: (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% SiO₂. Lower percentages of SiO₂ will yield higher exposure limits.

Permissible exposure limit: (OSHA) 0.15 mg/m³

TWA Total dust.

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| Remarks | | | The exposure limit is calculated from the equation, $15/(\%SiO_2+2)$, using a value of 100% SiO ₂ . Lower values of % SiO ₂ will give higher exposure limits. TWA Respirable fraction. 12 hr. TWA Respirable dust. 8 hr. TWA Respirable dust. |
|---------|----------|-------------------------|---|
| TLV | (ACGIH) | 0.025 mg/m ³ | |
| AEL * | (DUPONT) | 0.01 mg/m ³ | |
| AEL * | (DUPONT) | 0.02 mg/m ³ | |

* 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

Appearance

| | |
|----------------|-----------|
| Physical state | : solid |
| Form | : solid |
| Color | : various |

Odor : none

Odor threshold : No applicable data available.

pH : No applicable data available.

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : does not flash

Evaporation rate : No applicable data available.

Flammability (solid, gas) : May form combustible dust concentrations in air.

Upper explosion limit : No applicable data available.

Lower explosion limit : No applicable data available.

Vapour Pressure : No applicable data available.

Vapour density : No applicable data available.

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| | |
|--|---------------------------------|
| Density | : 2.2 - 2.4 g/cm ³ |
| Specific gravity (Relative density) | : No applicable data available. |
| Water solubility | : insoluble |
| Solubility(ies) | : No applicable data available. |
| Partition coefficient: n-octanol/water | : No applicable data available. |
| Auto-ignition temperature | : No applicable data available. |
| Decomposition temperature | : No applicable data available. |
| Viscosity, kinematic | : No applicable data available. |
| Viscosity, dynamic | : No applicable data available. |

SECTION 10. STABILITY AND REACTIVITY

| | |
|------------------------------------|---|
| Reactivity | : No applicable data available. |
| Chemical stability | : No applicable data available. |
| Possibility of hazardous reactions | : None reasonably foreseeable. |
| Conditions to avoid | : None reasonably foreseeable. |
| Incompatible materials | : No applicable data available. |
| Hazardous decomposition products | : Other decomposition products: No decomposition if used as directed. |

SECTION 11. TOXICOLOGICAL INFORMATION

Quartz

| | |
|-----------------|---|
| Oral LD50 | : > 11,000 mg/kg , Rat Bloody nasal discharge Weight loss |
| Skin irritation | : No skin irritation, Rabbit |

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| | | |
|------------------------|---|---|
| Eye irritation | : | No eye irritation, Rabbit |
| Skin sensitization | : | Does not cause skin sensitisation., Guinea pig |
| Repeated dose toxicity | : | Inhalation Rat - Target Organs: Lungs The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2. 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. |

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

| Material | IARC | NTP | OSHA |
|--------------|------|-----|------|
| Quartz | 1 | X | |
| Cristobalite | 1 | XX | |

SECTION 12. ECOLOGICAL INFORMATION

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

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - : Can be landfilled or incinerated, when in compliance with local regulations.



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Product

Contaminated packaging : 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) | : 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 |

SECTION 16. OTHER INFORMATION

Before use read DuPont's safety information.

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Significant change from previous version is denoted with a double bar.



ZODIAQ[®] Quartz Surfaces

Components: Quartz, CAS No. 14808-60-7; Non regulated ingredients



Danger

Hazard statements: May form combustible dust concentrations in air. May cause cancer. Causes damage to organs through prolonged or repeated exposure. (Lungs)

Precautionary statements: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. IF exposed or concerned: Get medical advice/ attention. Store locked up. Dispose of contents/ container to an approved waste disposal plant.

Supplemental information: 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. If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 100 %

Refer to Safety Data Sheet (SDS) for further information.

DuPont
974 Centre Road, Wilmington, Delaware 19805

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)

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