



TS-RZ-1011-01

## MSDS (MATERIALS SAFETY DATA SHEET)

### 1. Product and Company Identification

- **PRODUCT NAME** : RADIENZ™ Quartz Surfaces
- **COMPANY** : Cheil Industries Inc.
- **ADDRESS** : 32-2, Gocheon-Dong, Uiwang-Si, Gyeonggi-Do, Korea 437-711
- **EMERGENCY TELEPHONE** : +82-61-689-1114

### 2. Composition/Information on Ingredients

- **CHEMICAL FORMULA** : Not applicable
- **MOLECULAR WEIGHT** : Not applicable
- **DANGER RISK** : Not applicable
- **CAS NUMBER** : 1317 - 65 - 3  
14808 - 60 - 7
- **CE NUMBER** : Not applicable
- **EINECS NUMBER** : Not applicable

Product in composite stone obtained by mixing of quartz granules and/or silica sands bound with polyester resin.

### 3. Identification of Dangers

Avoid inhaling dust generated during fabrication. Inhalation of dust composed of Radianz™ may cause irritation to the mucosa.

Continued exposure to crystalline silica may cause silicosis, a chronic and progressively debilitating lung disease.

### 4. First Aid Measures

- **SKIN CONTACT** : Normally no effect. May cause dryness of the skin with prolonged contact.
  - **EYE CONTACT** : Normally no effect. In case of contact, flush with water. In case of continued pain, consult your medical care provider.
  - **INGESTION** : In case of ingestion (see 3, above), immediately rinse the mouth with water and consult your medical care provider.
  - **INHALATION** : In case of inhalation (see 3, above), move to an open and well-ventilated area. Consult your medical care provider.
-



TS-RZ-1011-01

## MSDS (MATERIALS SAFETY DATA SHEET)

### 5. Fire Safety Measures

- **APROPRIATE FIRE EXTINGUISHERS:** All fireproof means and materials are suitable.
- **NON-APPROPRIATE EXTINGUISHER, MEANS AND MATERIALS:** None
- **RISK OF COMBUSTION:** Radianz™ is a non combustion product.
- **MEANS OF PROTECTION:** None

### 6. Measures in Case of Accidental Spillage

- **INDIVIDUAL PRECAUTIONS:** Use personal protective equipment.
- **ENVIRONMENTAL PRECAUTIONS:** None
- **CLEANING METHOD:** Use manual or mechanical equipment.

### 7. Manipulation and Storage

- **PRECAUTIONS FOR MANIPULATION :** None
- **PRECAUTIONS FOR STORAGE:** Store in ventilated areas, covered and protected from heat.

### 8. Exposure Controls/Individual Protection

- **TECHNICAL MEASURES :** See 7, above
- **INDIVIDUAL PROTECTION DEVICES (IPD):** Individual protection is required if dust is generated.
  - PROTECTION OF RESPIRATORY SYSTEM: Wear a dust mask.
  - PROTECTION OF HANDS: Wear protective gloves.
  - PROTECTION OF EYES: Wear protective glasses.
  - EPROTECTION OF THE SKIN: None

Operating in a wet environment, combined with the use of ventilation and filtration systems are effective exposure controls.

### 9. Physical and Chemical Properties

- **PHYSICAL STATUS:** Solid
  - **FORM:** Not applicable
  - **COLOR:** Various
  - **ODOR:** None
  - **pH:** Not applicable
  - **BOILING TEMPERATURE :** Not applicable
-



TS-RZ-1011-01

## MSDS (MATERIALS SAFETY DATA SHEET)

- **FUSION TEMPERATURE** : Not applicable
- **FLASH POINT** : Not applicable
- **AUTO-INFLAMMABILITY** : Not applicable
- **COMBURENT PROPERTIES** : Not applicable
- **STEAM PRESSURE** : Not applicable
- **DENSITY AT 20°C** : 2.48 - 2.50 kg/dm<sup>3</sup>
- **SOLUBILITY** : Insoluble in water and in inorganic acid
- **COEFFICIENT N-OCTANE/WATER** : Not applicable

### 10. Stability and Reactivity

- **CONDITIONS TO AVOID** : None
- **MATERIALS TO AVOID** : None
- **DANGEROUS PRODUCTS OF DECOMPOSITION** : None

### 11. Toxicological Information

- **MEANS OF PENETRATION** :
    - INGESTION : No
    - INHALATION : Yes
    - CONTACT : No
  - **ACUTE TOXICITY** : No
  - **CHRONIC TOXICITY** : Yes
  - **CORROSIVITY / IRRITATION PROPERTIES** :
    - SKIN: None
    - EYES: None
    - RESPIRATORY: Possible chronic effects of long-term exposure - silicosis, pulmonary emphysema.
  - **SENSITIVITY PROPERTIES** : Unknown
-



TS-RZ-1011-01

## MSDS (MATERIALS SAFETY DATA SHEET)

### 12. Ecological Information

- **MOBILITY** : None
- **PERSISTENCE/DEGRADABILITY** : Not persistent/degradable
- **BIOACCUMULATION** : None
- **ECO-TOXICITY** : None

This product is considered a stable material, non reactive and insoluble. Based on current knowledge, non-ecological problems are hypothesized. Use according to good working procedures, and avoid the dispersal of particulate material into the environment.

### 13. Consideration of Refuse

- **CONTAINMENT TECHNIQUES** : No requirements
- **CLEANING TECHNIQUES** : Manual removal (shovel, broom, vacuum cleaner)
- **BIOACCUMULATION** : None
- **SCRAP MATERIAL DISPOSAL**: Disposal of fabrication and installation waste materials must be handled in accordance with existing regulations regarding waste materials.
- **Packaging Material Disposal**: Recycle or reuse packing materials (carton and wooden pallets). Dispose of external wrapping according to existing regulations.

### 14. Transport Information

- **GROUND** : No specific precautions
- **WATERWAYS** : No specific precautions
- **SEA** : No specific precautions
- **AIR** : No specific precautions

### 15. Regulatory Information

Radianz™ is not dangerous as per Italian Decree Law, 3 February 1997 n.52 and relative rules regarding the classification, packaging and labeling of dangerous substances.

---



TS-RZ-1011-01

## MSDS (MATERIALS SAFETY DATA SHEET)

### 16. Other information

We hereby certify that the above statements are true and correct in every respect. If the statements are not true, all responsibility will belong to CHEIL.

Signature/Issued Date:

**Radianz™ Quartz Surfaces**

CHEIL INDUSTRIES INC.

---