

## Material Safety Data Sheet

Reviewed 4/01

### **Section I**

Manufacturer's Name  
Coatings For Industry, Inc.

Emergency Response #  
1-800-535-5053

Address  
319 Township Line Road  
Souderton, PA 18964

Non-Emergency #  
215-723-0919

Chemical Name  
Silica

Trade Name & Synonyms  
Wearcoat 805 Trowel Epoxy  
Part C

### **Section II – Hazardous Ingredients/Identity Information**

Chemical Components: Silica, Crystalline Quartz (respirable).  
Specific Chemical Identity: Silicon Dioxide, SiO<sub>2</sub>  
Composition: SiO<sub>2</sub>: 98% minimum  
Balance: Fe<sub>2</sub>O<sub>3</sub>, CaO, Na<sub>2</sub>O, MgO, Al<sub>2</sub>O<sub>3</sub>, K<sub>2</sub>O, TiO<sub>2</sub>  
Common Identity: Silica Sand, Crystalline Silica, Sandblast Sand, Filter Sand, Filter Gravel or trade name

Permissible Exposure Limits: Exposure to airborne crystalline silica shall not exceed an 8 hour time weighted average (TWA) limit as stated in 29 CFR 1910.1000.

Threshold Limit Values (TLVs) for exposure to respirable silica:

Respirable Silica TLV: 10/(% resp silica +2) mg/m<sup>3</sup>

Total Silica TLV: 30/(% resp silica +2) mg/m<sup>3</sup>

ACGIH TLV: 0.10 mg/m<sup>3</sup> for 8 hour time weighted average

NIOSH TLV: 0.05 mg/m<sup>3</sup> for 10 hour shift, 40 hour week

### **Section III – Physical/Chemical Characteristics**

Boiling Point - 4046°F.

Specific Gravity – 2.65

Melting Point - 3050°F.

Vapor Pressure – none

Evaporation Rate (Butyl Acetate = 1) – none

Vapor Density (Air = 1) – none

Solubility in Water – insoluble

Appearance and Odor – white, gray or tan, no odor or taste

#### **Section IV – Fire and Explosion Hazard Data**

Flash Point – Non-flammable  
Flammable Limits – None  
LEL – None  
UEL – None

Extinguishing Media – none required  
Special Fire Fighting Procedures – N/A  
Unusual Fire and Explosion Hazards – N/A

#### **Section V – Reactivity Data**

Stability – Stable  
Hazardous Polymerization – Will not occur  
Hazardous Decomposition or Byproducts –  
Incompatibility (materials to avoid) - molten

Conditions to Avoid – None  
Will dissolve in hydrofluoric acid and produce a corrosive gas.  
Contact with powerful agents such as magnesium, fluorine, chlorine trifluoride, magnesium trioxide, oxygen difluoride may cause fires.

#### **Section VI – Health Hazard Data**

Route of Entry – Inhalation

Acute and Chronic Health Hazards – Prolonged exposure to respirable crystalline silica may cause delayed (chronic) lung injury (silicosis). Silicosis may occur over periods of time under moderate exposures. Silicosis is a form of disabling pulmonary fibrosis which can be progressive and may lead to death.

Silica as Related to Carcinogenicity – Categorized in a group of substances which may “reasonably be anticipated to be carcinogens.” IARC Monographs? Yes. OSHA? No.

IARC Class – 2A: Limited evidence of Carcinogenicity of crystalline silica in humans.

Signs and Symptoms of Exposure – Shortness of breath, reduced pulmonary function, coughing, wheezing.

Medical Conditions Generally Aggravated by Exposure – Bronchitis, emphysema and asthma. Smoking is known to aggravate the effects of exposure.

Emergency First Aid Procedures – For sand in eyes, immediately flush with water. For gross inhalation, remove person to fresh air and seek medical attention accordingly.

#### **Section VII – Precautions for Safe Handling and Use**

Steps to be Taken in Case Material is Released or Spilled – Use dustless method (water or vacuum) if not contaminated use recommended method for contaminate.

Waste Disposal Method – Dispose in accordance with federal, state and local regulations.

Other Precautions – Use ventilation and dust collection systems as the primary methods to control dusts from these products.

Respirators – Maintain and use respirators to enhance ventilation and dust collection measures. Employ good housekeeping procedures and avoid accumulating dust.

Workplace Dust Surveys – Users shall survey their work areas for respirable silica.

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### **Section VIII – Control Measures**

Respiratory Protection – Use NIOSH/MSHA approved (ANSI Z88.2) respirators with this product. Users shall have in place a respiratory protection and monitoring program which accords with 29 CFR 1910.134: “Respiratory Protection.”

Ventilation and Local Exhaust – Recommended

Mechanical – Recommended

Special and Other – As needed

Protective Gloves – Normal plant wear

Eye Protection – Recommended

Other Protective Clothing or Equipment – If sandblasting use a respirator approved by NIOSH for abrasive blasting operations. Enclose the operation in a properly designed and maintained blasting enclosure.

Work/Hygienic Practices – Avoid creating and breathing dust. Warn and train your employees and customers of the hazards of this product in accordance with applicable “Right to Know” practices.

**NOTICE:** This information is presented in good faith and believed to be accurate as of the effective date below. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Coatings For Industry, Inc. Assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material, such vendees or users assume all risks associated with the use of the material. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer’s responsibility to ensure that its activities comply with federal, state and local laws. The preceding specific information is made for the purpose of complying with numerous federal, state and local laws and regulations.

12/96