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## Section 4 - FIRST AID MEASURES

### **First aid measures for different exposure routes**

INHALATION: Move to fresh air.

EYE CONTACT: Rise thoroughly with plenty of water for a least 15 minutes, lifting lower and upper eyelids . Consult a physician.

SKIN CONTACT: Wash skin with soap and water.

INGESTION: Clean mouth with water and drink afterwards plenty of water.

### **Most important symptoms/ effect, acute and delayed**

Main symptoms: No information available

### **Indication of immediate medical attention and special treatment needed, if necessary**

Note to physician: Treat symptomatically.

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## Section 5 - FIRE-FIGHTING MEASURES

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

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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## Section 6 - ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

PERSONAL PRECAUTIONS: Avoid contact with the skin and eyes. Use personal protective equipment. For personal protection see section 8. Ensure adequate ventilation.

### **Methods and materials for containment and cleaning up**

Prevent further leakage or spillage if safe to do so. Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

### **Environmental Precautions**

Prevent further leakage or spillage if safe to do so.

## Section 7 - HANDLING AND STORAGE

### Precautions for safe Handling

PRECAUTION FOR SAFE HANDLING: Avoid contact with skin, eyes and clothing. Do not breathe vapors/dust. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Provide appropriate exhaust ventilation at the place where dust is formed. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8.

### Conditions for safe storage, including any incompatibilities

TECHNICAL MEASURES/STORAGE CONDITIONS: Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store in accordance with local regulations.

INCOMPATIBLE PRODUCTS: None known based on information supplied.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Iron hydroxide oxide 20344-49-4	Not Established	Not Established	Not Established
Quartz 14808-60-7	Not Established	0.025 mg/m <sup>3</sup> TWA (respirable fraction)	NIOSH: 0.05 mg/m <sup>3</sup> TWA (respirable dust)
Manganese dioxide 1313-13-9	Not Established	Not Established	Not Established

### Exposure Control

ENGINEERING MEASURES: Showers, eyewash stations, ventilation systems. Apply technical measures to comply with the occupational exposure limits. Process enclosure and/or ventilation systems.

### Individual protection measures, such as personal protective equipment

EYE/FACE PROTECTION: Tightly fitting safety goggles. Avoid contact with eyes. Eyewash fountains should be provided in area where there is any possibility that workers could be exposed to the substances.

SKIN AND BODY PROTECTION: Wear protective gloves and protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

RESPIRATORY PROTECTION: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

HYGIENE MEASURES: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. Wear personal protective equipment.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b> : Solid powder <b>Odor threshold</b> : N/A <b>Melting point</b> : N/A <b>Flash Pt(F/C)</b> : N/A <b>Flammability (solid, gas)</b> : N/A <b>Vapor pressure</b> : N/A <b>Relative density</b> : ~4.0 <b>Partition coefficient:n- octanol/water</b> : <b>Decomposition temp</b> : N/A	<b>Odor</b> : None <b>PH</b> : N/A <b>Boiling point</b> : 2230°C <b>Evaporation rate</b> : N/A <b>LEL/UEL</b> : N/A <b>Vapor density</b> : N/A <b>Solubility</b> : N/A <b>Autoignition temp</b> : N/A <b>Viscosity</b> : N/A
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**Section 10 - STABILITY AND REACTIVITY**

CONDITIONS TO AVOID: None

REACTIVITY: No data available

CHEMICAL STABILITY: Stable under recommended storage conditions

HAZARDOUS REACTIONS: None under normal processing

INCOMPATIBLE MATERIALS: Quartz (SiO<sub>2</sub>) will dissolve in hydrofluoric acid producing a corrosive gas, silicon tetrafluoride and strong oxidizing agents

HAZARDOUS DESCOMPOSITION PRODUCTS: None

**Section 11 - TOXICOLOGICAL INFORMATION**

**Mixture Toxicity**  
Oral Toxicity LD50: 2,832mg/kg

**Component Toxicity**  
14808-60-7      Quartz  
Oral LD50: 500 mg/kg (Rat)

Exposure to this material may affect the following organs:

**Effects of Overexposures**

INGESTION: Not a normal route of exposure. Ingestion of large amounts may cause gastrointestinal disturbances. Symptoms may include salivation, pain, nausea, vomiting and diarrhea.

INHALATION: Dust may cause mechanical irritation to the respiratory tract. Excessive exposure above the TLV can cause mild pulmonary irritation.

EYE CONTACT: Will result in no specific effects other than mechanical irritation due to abrasion .

SKIN CONTACT: Not absorbed by the body, irritation may occur by mechanical abrasion .

SPECIAL TOXIC EFFECTS: Prolonged and repeated inhalation of iron dust may result in siderosis or "iron pigmentation". Siderosis is considered to be a benign condition and does not appear to progress to fibrosis. It generally requires 6-10 years of exposure. Little or no change is found upon physical examination.

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
14808-60-7	Quartz	10 to 20%	Quartz: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed

**Section 12 - ECOLOGICAL INFORMATION**

**Component Ecotoxicity**

None

**Section 13 - DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHODS: Should not be released into the environment. Dispose of in accordance with local regulations. This material, as supplied, is not a hazardous waste according to federal regulations (40 CFR 261).

CONTAMINATED PACKAGING: Do not re-use containers. Dispose of in accordance with local regulations.

**Section 14 - TRANSPORT INFORMATION**

This material is classified for transport as follows:

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Non-Regulated Material			

**Section 15 - REGULATORY INFORMATION**

**State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):** WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

14808-60-7 Quartz 10 to 20 % Carcinogen

**CERCLA-SARA Hazard Category:** This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- None

**Sara Section 313:** This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

- None

**Section 16 - OTHER INFORMATION**

**Hazardous Material Information System (HMIS)**

<b>HEALTH</b>	<input type="checkbox"/>	<b>1</b>	<b>HMIS &amp; NFPA Hazard Rating</b> <b>Legend</b> * = Chronic Health Hazard <b>0 = INSIGNIFICANT</b> <b>1 = SLIGHT</b> <b>2 = MODERATE</b> <b>3 = HIGH</b>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<b>0</b>	
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>	<b>0</b>	
<b>PERSONAL PROTECTION</b>	<input checked="" type="checkbox"/>	<b>X</b>	

Westcoat Specialty Coating Systems believes, to the best of its knowledge, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Westcoat Specialty Coating Systems makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

Date Prepared: 1/20/2021