

## Safety Data Sheet

### Section 1: Identification

#### Product identifier

**Product Name** • **Northgate™; Northgate™ Ridge**

#### Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** • An outer roof covering designed to withstand the elements, provide algae growth resistance, impact resistance, and enhance the appearance of a roof.

#### Details of the supplier of the safety data sheet

**Manufacturer** • CertainTeed Corporation  
750 E. Swedesford Road  
P.O. Box 860 Valley Forge, PA 19482-0105  
United States  
www.certainteed.com  
Building.Solutions@saint-gobain.com

**Telephone (Technical)** • (610) 341-7000 - 9 AM – 5 PM (Eastern Time – USA)

#### Emergency telephone number

**Manufacturer** • 800-527-3887

**Manufacturer** • (703) 527-3887 - Outside of the U.S. Chemtrec

### Section 2: Hazard Identification

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

**OSHA HCS 2012** • Product is considered an article and hazards below are not anticipated under normal conditions of use.  
Carcinogenicity 1A  
Specific Target Organ Toxicity Repeated Exposure 1

#### Label elements

OSHA HCS 2012

#### DANGER



**Hazard statements** • May cause cancer.  
Causes damage to organs through prolonged or repeated exposure.

#### Precautionary statements

**Prevention** • Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust.  
Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • IF exposed or concerned: Get medical advice/attention.  
Get medical advice/attention if you feel unwell.

**Storage/Disposal** • Store locked up.  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Other hazards

### OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Section 3 - Composition/Information on Ingredients

### Substances

- Material does not meet the criteria of a substance.

### Mixtures

| Composition                 |                |               |  |  |          |
|-----------------------------|----------------|---------------|--|--|----------|
| Chemical Name               | Identifiers    | %             | LD50/LC50  | Classifications According to Regulation/Directive                          | Comments |
| Limestone                   | CAS:1317-65-3  | 30% TO 50%    | NDA  | OSHA HCS 2012: Not Classified  | NDA      |
| Mineral Granules            | NDA            | 25% TO 45%    | NDA  | OSHA HCS 2012: Not Classified  | NDA      |
| Asphalt                     | CAS:8052-42-4  | 15% TO 25%    | Ingestion/Oral-Rat LD50 • >5000 mg/kg<br>Inhalation-Rat LC50 • >94.4 mg/m <sup>3</sup> | OSHA HCS 2012: Not Classified  | NDA      |
| Petroleum asphalt, oxidized | CAS:64742-93-4 | 5% TO 15%     | NDA  | OSHA HCS 2012: Carc. 1B  | NDA      |
| Quartz                      | CAS:14808-60-7 | 5% TO 10%     | NDA  | OSHA HCS 2012: Carc. 1A; STOT RE 1 (Lungs, Inhl)                           | NDA      |
| Talc                        | CAS:14807-96-6 | < 5%          | NDA  | OSHA HCS 2012: STOT RE 1 (Lungs, Inhl)                                     | NDA      |
| SBS Polymer                 | NDA            | < 5%          | NDA  | OSHA HCS 2012: Not Classified  | NDA      |
| Glass, oxide, chemicals     | CAS:65997-17-3 | 1.5% TO 3%    | NDA  | OSHA HCS 2012: Not Classified  | NDA      |
| Copper(I) oxide             | CAS:1317-39-1  | 0.05% TO 0.1% | NDA  | OSHA HCS 2012: Acute Tox. 4 (orl); HNOC - Health Hazard - Metal Fume Fever | NDA      |

## Section 4: First-Aid Measures

### Description of first aid measures

#### Inhalation

- Remove to fresh air, apply artificial respiration and/or oxygen if necessary and get medical attention.

#### Skin

- Remove contaminated clothing and wash exposed skin with soap and water. If irritation develops or persists, seek medical attention.

- Eye**
- If foreign matter enter eyes, immediately flush with large amounts of water for at least 15 minutes or until irritation subsides. Do not rub or scratch your eyes, dust particles may cause the eye to be scratched. If irritation persists, contact a physician.
- Ingestion**
- Consult a physician if unusual reaction is noted. Product is not intended nor is it likely to be ingested or eaten.

### Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

### Indication of any immediate medical attention and special treatment needed

- Notes to Physician**
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5: Fire-Fighting Measures

### Extinguishing media

- Suitable Extinguishing Media**
- Water spray, carbon dioxide, foam or dry chemical.

- Unsuitable Extinguishing Media**
- No data available

### Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- No data available

- Hazardous Combustion Products**
- Decomposition products from this material are those that would be expected from any organic material. These may include carbon dioxide, carbon monoxide and formaldehyde.

### Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

## Section 6 - Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- Do not breathe dust. Wear a dust mask if generated above exposure limits. Wear appropriate protective equipment and clothing during clean-up.

- Emergency Procedures**
- No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

### Environmental precautions

- Avoid release to the environment.

### Methods and material for containment and cleaning up

- Containment/Clean-up Measures**
- Pick up large pieces. Vacuum dust. If sweeping is necessary, use a dust suppressant such as water. These procedures will help to minimize potential exposures. Scoop up material and put into a suitable container for disposal as a non-hazardous waste.

## Section 7 - Handling and Storage

### Precautions for safe handling

- Handling**
- Avoid breathing dust generated when sawing, routing, drilling, and sanding this product. If sawing or shaping boards indoors, ensure adequate ventilation to prevent excessive dust exposure. Wear personal protective equipment. Wash thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

- Storage**
- Keep away from heat and ignition sources. Material should be kept dry, and protected from the elements.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

| Exposure Limits/Guidelines |          |   |  |  |
|----------------------------|----------|---|--|--|
|                            | Result   | ACGIH   | NIOSH  | OSHA   |
| Glass, oxide, chemicals    | TWAs     | 1 fiber/cm <sup>3</sup> TWA (respirable fibers: length >5 µm, aspect ratio ≥3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers)<br><br><i>as Glass wool fiber</i> | 3 fiber/cm <sup>3</sup> TWA (fibers ≤ 3.5 µm in diameter and ≥ 10 µm in length); 5 mg/m <sup>3</sup> TWA (total)<br><br><i>as Glass wool fiber</i> | Not established  |
| Talc (14807-96-6)          | TWAs     | 2 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)   | 2 mg/m <sup>3</sup> TWA (containing no Asbestos and <1% Quartz, respirable dust)   | Not established  |
| Quartz (14808-60-7)        | TWAs     | 0.025 mg/m <sup>3</sup> TWA (respirable fraction)   | 0.05 mg/m <sup>3</sup> TWA (respirable dust)   | Not established  |
| Asphalt (8052-42-4)        | TWAs     | 0.5 mg/m <sup>3</sup> TWA (fume, inhalable fraction, as benzene soluble aerosol)  | Not established  | Not established  |
|                            | Ceilings | Not established   | 5 mg/m <sup>3</sup> Ceiling (fume, 15 min)   | Not established  |
| Limestone (1317-65-3)      | TWAs     | Not established   | 10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust)   | 15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction) |

### Exposure Control Notations

#### ACGIH

- Asphalt (8052-42-4): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen (fume, coal tar-free))
- Quartz (14808-60-7): **Carcinogens:** (A2 - Suspected Human Carcinogen)
- Talc (14807-96-6): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers))
- Glass, oxide, chemicals as Glass wool fiber: **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (listed under Synthetic vitreous fibers))

### Exposure Limits Supplemental

#### OSHA

- Quartz (14808-60-7): **Mineral Dusts:** ((30)/(%SiO<sub>2</sub> + 2) mg/m<sup>3</sup> TWA, total dust; (250)/(%SiO<sub>2</sub> + 5) mppcf TWA, respirable fraction; (10)/(%SiO<sub>2</sub> + 2) mg/m<sup>3</sup> TWA, respirable fraction)
- Talc (14807-96-6): **Mineral Dusts:** (20 mppcf TWA (if 1% Quartz or more, use Quartz limit))

#### ACGIH

- Asphalt (8052-42-4): **BEIs:** (Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative))  
| **TLV Basis - Critical Effects:** (eye and upper respiratory tract irritation (fume))
- Quartz (14808-60-7): **TLV Basis - Critical Effects:** (lung cancer; pulmonary fibrosis)
- Talc (14807-96-6): **TLV Basis - Critical Effects:** (pulmonary fibrosis (containing no asbestos fibers); pulmonary function (containing no asbestos fibers))

### Exposure controls

#### Engineering Measures/Controls

- Keep exposures to dust generated from cutting, drilling, routing, sawing or crushing, as low as possible. Whenever possible, perform machining of boards in a well ventilated area (outside) and use local exhaust ventilation to keep exposures below the recommended exposure limits.

**Personal Protective Equipment****Respiratory**

- Manufacturer recommends use of NIOSH N-95 respirators when cutting, drilling, sanding, etc.

**Eye/Face**

- Safety glasses with side shields should be worn at a minimum.

**Hands**

- Wear leather or cotton gloves when handling large pieces and during operations such as sawing, routing or drilling.

**Skin/Body**

- Wear leather or other appropriate work gloves, as necessary. Normal work clothing (long sleeved shirts and long pants) is recommended.

**Environmental Exposure Controls**

- Follow best practice for site management and disposal of waste.

**Key to abbreviations**

ACGIH = American Conference of Governmental Industrial Hygiene

OSHA = Occupational Safety and Health Administration

BEI = Biological Exposure Indices

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

NIOSH = National Institute of Occupational Safety and Health

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

**Section 9 - Physical and Chemical Properties****Information on Physical and Chemical Properties**

| <b>Material Description</b>         |                   |                              |   |
|-------------------------------------|-------------------|------------------------------|---|
| Physical Form                       | Solid             | Appearance/Description       | Solid-form, asphalt-based roofing shingle available in multiple colors. |
| Color                               | No data available | Odor                         | No data available   |
| Odor Threshold                      | No data available |                              |   |
| <b>General Properties</b>           |                   |                              |   |
| Boiling Point                       | No data available | Melting Point/Freezing Point | No data available   |
| Decomposition Temperature           | No data available | pH                           | No data available   |
| Specific Gravity/Relative Density   | No data available | Water Solubility             | No data available   |
| Viscosity                           | No data available |                              |   |
| <b>Volatility</b>                   |                   |                              |   |
| Vapor Pressure                      | No data available | Vapor Density                | No data available   |
| Evaporation Rate                    | No data available |                              |   |
| <b>Flammability</b>                 |                   |                              |   |
| Flash Point                         | No data available | UEL                          | No data available   |
| LEL                                 | No data available | Autoignition                 | No data available   |
| Flammability (solid, gas)           | No data available |                              |   |
| <b>Environmental</b>                |                   |                              |   |
| Octanol/Water Partition coefficient | No data available |                              |   |

**Section 10: Stability and Reactivity****Reactivity**

- No dangerous reaction known under conditions of normal use.

**Chemical stability**

- Stable under normal conditions.

**Possibility of hazardous reactions**

- Hazardous polymerization will not occur.

## Conditions to avoid

- Avoid dispersion of dust in air. Keep away from heat and open flame.

## Incompatible materials

- No data available

## Hazardous decomposition products

- Decomposition products from this material are those that would be expected from any organic material. These may include carbon dioxide, carbon monoxide, and formaldehyde.

## Section 11 - Toxicological Information

### Information on toxicological effects

| Components                           |            |   |
|--------------------------------------|------------|---|
| Limestone (30% TO 50%)               | 1317-65-3  | <b>Multi-dose Toxicity:</b> Inhalation-Rat TCLo • 84 mg/m <sup>3</sup> 4 Hour(s) 40 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Liver:Other changes; Kidney, Ureter, and Bladder:Other changes;</i> Inhalation-Rat TCLo • 250 mg/m <sup>3</sup> 2 Hour(s) 24 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis)</i>  |
| Asphalt (15% TO 25%)                 | 8052-42-4  | <b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >5000 mg/kg; <i>Gastrointestinal:Hypermotility, diarrhea;</i> Inhalation-Rat LC50 • >94.4 mg/m <sup>3</sup> ;<br><b>Multi-dose Toxicity:</b> Inhalation-Mouse TCLo • 35 mg/m <sup>3</sup> 10 Day(s)-Intermittent; <i>Immunological Including Allergic:Decrease in humoral immune response;</i><br><b>Mutagen:</b> Micronucleus test • Unreported Route-Rat • Other Cell Type • 57.8 µg/L;<br><b>Tumorigen / Carcinogen:</b> Skin-Mouse TDLo • 905 g/kg 2 Year(s)-Intermittent; <i>Tumorigenic:Neoplastic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Skin and Appendages:Other:Tumors</i>   |
| Quartz (5% TO 10%)                   | 14808-60-7 | <b>Acute Toxicity:</b> Inhalation-Human TCLo • 16 mppcf 8 Hour(s) 17.9 Year(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Cough; Lungs, Thorax, or Respiration:Dyspnea;</i> Inhalation-Rat TCLo • 200 mg/kg; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Other changes; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Fe;</i><br><b>Multi-dose Toxicity:</b> Inhalation-Hamster TCLo • 3 mg/m <sup>3</sup> 6 Hour(s) 78 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Changes in lung weight;</i> Inhalation-Rat TCLo • 6.2 mg/m <sup>3</sup> 6 Hour(s) 6 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Other changes; Blood:Changes in spleen; Immunological Including Allergic:Increase in cellular immune response;</i> Inhalation-Rat TCLo • 80 mg/m <sup>3</sup> 26 Week (s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Blood:Changes in spleen; Immunological Including Allergic:Decrease in cellular immune response;</i><br><b>Mutagen:</b> Micronucleus test • Unreported Route-Hamster • Lung (Somatic cell) • 160 µg/cm <sup>3</sup> ; DNA damage • Unreported Route-Human • Other Cell Type • 120 mg/L 24 Hour(s); Micronucleus test • Unreported Route-Human • Lung (Somatic cell) • 40 µg/cm <sup>3</sup> ;<br><b>Tumorigen / Carcinogen:</b> Inhalation-Rat TCLo • 50 mg/m <sup>3</sup> 6 Hour(s) 71 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Liver:Tumors</i> |
| Talc (< 5%)                          | 14807-96-6 | <b>Irritation:</b> Skin-Human • 300 µg 3 Day(s)-Intermittent • Mild irritation;<br><b>Tumorigen / Carcinogen:</b> Inhalation-Rat TCLo • 18 mg/m <sup>3</sup> 6 Hour(s) 2 Year(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Bronchiogenic carcinoma; Endocrine:Tumors</i>   |
| Glass, oxide, chemicals (1.5% TO 3%) | 65997-17-3 | <b>Tumorigen / Carcinogen:</b> Inhalation-Rat TCLo • 5 mg/m <sup>3</sup> 7 Hour(s) 90 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Blood:Leukemia</i>   |
| Copper(I) oxide (0.05% TO 0.1%)      | 1317-39-1  | <b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 470 mg/kg  |

| GHS Properties                | Classification   |
|-------------------------------|--|
| Acute toxicity                | OSHA HCS 2012 • No data available                                  |
| Aspiration Hazard             | OSHA HCS 2012 • No data available                                  |
| Carcinogenicity               | OSHA HCS 2012 • Carcinogenicity 1A                                 |
| Germ Cell Mutagenicity        | OSHA HCS 2012 • No data available                                  |
| Skin corrosion/Irritation     | OSHA HCS 2012 • No data available                                  |
| Skin sensitization            | OSHA HCS 2012 • No data available                                  |
| STOT-RE                       | OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1 |
| STOT-SE                       | OSHA HCS 2012 • No data available                                  |
| Toxicity for Reproduction     | OSHA HCS 2012 • No data available                                  |
| Respiratory sensitization     | OSHA HCS 2012 • No data available                                  |
| Serious eye damage/Irritation | OSHA HCS 2012 • No data available                                  |

## Potential Health Effects

### Inhalation

#### Acute (Immediate)

- Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

#### Chronic (Delayed)

- Registry of Toxic Effects of Chemical Substances (RTECS) concludes that repeated or prolonged inhalation of glass, oxide, chemicals may cause leukemia. Silicosis (pulmonary fibrosis or severe lung scarring) may occur if exposed to high levels or repeated encounters with dust. This product contains crystalline silica (quartz) which is listed by IARC as carcinogen and a known human carcinogen by NTP. Exposure to airborne particles that exceed the limits listed may cause lung cancer.

### Skin

#### Acute (Immediate)

- Exposure to dust may cause mechanical irritation.

#### Chronic (Delayed)

- No data available.

### Eye

#### Acute (Immediate)

- Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.

#### Chronic (Delayed)

- No data available.

### Ingestion

#### Acute (Immediate)

- Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

#### Chronic (Delayed)

- No data available.

### Carcinogenic Effects

- Repeated and prolonged exposure may cause cancer. This product contains petroleum asphalt. Asphalt fumes arise from hot asphalt. Asphalt fumes (CAS # 8052-42-4): In 1985/87, IARC (International Agency for Research on Cancer) concluded the following: (a) Bitumens are not classifiable as to their carcinogenicity to humans (Group 3). (b) Extracts of steam- and air-refined bitumens are possibly carcinogenic to humans (Group 2B). IARC found that evidence for carcinogenicity from animal studies was: inadequate for undiluted air-refined bitumens; limited for steam-refined and cracking residue bitumens; sufficient for extracts of steam-refined and air-refined bitumen. IARC found that human evidence for carcinogenicity of asphalt fumes was inadequate. Studies of roofers indicated an excess of cancers; however, IARC concluded that, since roofers may be exposed also to coal-tar pitches and other materials, "the excess cancer risk cannot be attributed specifically to bitumens." In 1994, a published review of 20 epidemiology studies of asphalt workers and roofers agreed with IARC, that current human evidence is inadequate for the carcinogenicity of asphalt fumes in humans. Trace amounts of polynuclear aromatic hydrocarbons

(PAHs) may be present in some asphalts and can be released upon excessive heating, which results in thermal cracking of the asphalt compounds. Some of these PAHs have been identified as having the potential to induce carcinogenic and reproductive health effects.

| <b>Carcinogenic Effects</b>                 |            |                              |   |
|---|------------|------------------------------|---|
|   | <b>CAS</b> | <b>IARC</b>                  | <b>NTP</b>                                    |
| Glass, oxide, chemicals as Glass wool fiber | NDA        | Not Listed                   | Reasonably Anticipated to be Human Carcinogen |
| Asphalt                                     | 8052-42-4  | Group 2B-Possible Carcinogen | Not Listed                                    |
| Petroleum asphalt, oxidized                 | 64742-93-4 | Group 2A-Probable Carcinogen | Not Listed                                    |
| Quartz                                      | 14808-60-7 | Group 1-Carcinogenic         | Known Human Carcinogen                        |

## Section 12 - Ecological Information

### Toxicity

- No information available for the product.

### Persistence and degradability

- No information available for the product.

### Bioaccumulative potential

- No information available for the product.

### Mobility in Soil

- No information available for the product.

### Other adverse effects

- Based on information related to the final product, it is not expected to harm ecosystems through its applied use.

## Section 13 - Disposal Considerations

### Waste treatment methods

#### Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

#### Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

|     | <b>UN number</b> | <b>UN proper shipping name</b> | <b>Transport hazard class(es)</b> | <b>Packing group</b> | <b>Environmental hazards</b> |
|-----|------------------|--------------------------------|-----------------------------------|----------------------|------------------------------|
| DOT | NDA              | Not Regulated                  | NDA                               | NDA                  | NDA                          |

#### Special precautions for user

- None specified.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- No data available

## Section 15 - Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture****SARA Hazard Classifications** • Chronic

| State Right To Know         |            |     |
|-----------------------------|------------|-----|
| Component                   | CAS        | PA  |
| Asphalt                     | 8052-42-4  | Yes |
| Copper(I) oxide             | 1317-39-1  | No  |
| Glass, oxide, chemicals     | 65997-17-3 | No  |
| Limestone                   | 1317-65-3  | Yes |
| Petroleum asphalt, oxidized | 64742-93-4 | No  |
| Quartz                      | 14808-60-7 | Yes |
| Talc                        | 14807-96-6 | Yes |

| Inventory                   |            |      |
|-----------------------------|------------|------|
| Component                   | CAS        | TSCA |
| Asphalt                     | 8052-42-4  | Yes  |
| Copper(I) oxide             | 1317-39-1  | Yes  |
| Glass, oxide, chemicals     | 65997-17-3 | Yes  |
| Limestone                   | 1317-65-3  | Yes  |
| Petroleum asphalt, oxidized | 64742-93-4 | Yes  |
| Quartz                      | 14808-60-7 | Yes  |
| Talc                        | 14807-96-6 | Yes  |

**United States****Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed |
| • Quartz                      | 14808-60-7 | Not Listed |

**U.S. - OSHA - Specifically Regulated Chemicals**

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed |
| • Quartz                      | 14808-60-7 | Not Listed |

**Environment****U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed |
| • Quartz                      | 14808-60-7 | Not Listed |

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed |
| • Quartz                      | 14808-60-7 | Not Listed |

**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed |
| • Quartz                      | 14808-60-7 | Not Listed |

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed |
| • Quartz                      | 14808-60-7 | Not Listed |

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed |
| • Quartz                      | 14808-60-7 | Not Listed |

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed |
| • Quartz                      | 14808-60-7 | Not Listed |

**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed |
| • Quartz                      | 14808-60-7 | Not Listed |

## United States - California

### Environment

#### U.S. - California - Proposition 65 - Carcinogens List

|                               |            |   |
|-------------------------------|------------|---|
| • Copper(I) oxide             | 1317-39-1  | Not Listed  |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed  |
| • Talc                        | 14807-96-6 | Not Listed  |
| • Asphalt                     | 8052-42-4  | Not Listed  |
| • Limestone                   | 1317-65-3  | Not Listed  |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed  |
| • Quartz                      | 14808-60-7 | carcinogen, initial date 10/1/88<br>(airborne particles of respirable size) |

#### U.S. - California - Proposition 65 - Developmental Toxicity

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed |
| • Quartz                      | 14808-60-7 | Not Listed |

#### U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed |
| • Quartz                      | 14808-60-7 | Not Listed |

#### U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed |
| • Quartz                      | 14808-60-7 | Not Listed |

#### U.S. - California - Proposition 65 - Reproductive Toxicity - Female

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |

|                           |            |            |
|---------------------------|------------|------------|
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |
| • Quartz                  | 14808-60-7 | Not Listed |

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed |
| • Quartz                      | 14808-60-7 | Not Listed |

**United States - Pennsylvania****Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed |
| • Quartz                      | 14808-60-7 | Not Listed |

**U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**

|                               |            |            |
|-------------------------------|------------|------------|
| • Copper(I) oxide             | 1317-39-1  | Not Listed |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Talc                        | 14807-96-6 | Not Listed |
| • Asphalt                     | 8052-42-4  | Not Listed |
| • Limestone                   | 1317-65-3  | Not Listed |
| • Glass, oxide, chemicals     | 65997-17-3 | Not Listed |
| • Quartz                      | 14808-60-7 | Not Listed |

**Other Information**

- **WARNING:** This product contains a chemical known to the State of California to cause cancer.

**Section 16 - Other Information****Last Revision Date**

- No data available

**Preparation Date**

- No data available

**Disclaimer/Statement of Liability**

- Reasonable care has been taken in the preparation of this information, but the supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Safety Data Sheet before handling product.

**Key to abbreviations**

NDA = No Data Available

