



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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### SECTION 1: Identification

#### 1.1. Product identifier

3M 7000 Series Copper Granules - 7000L, 7050L & 7070L (Little Rock, AR)

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Roofing granules for roofing shingles.

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Industrial Mineral Products             |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Acute Toxicity (oral): Category 4.

Acute Toxicity (inhalation): Category 4.

Serious Eye Damage/Irritation: Category 1.

Carcinogenicity: Category 1A.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Corrosion | Exclamation mark | Health Hazard |

##### Pictograms



**Hazard Statements**

Harmful if swallowed.  
 Causes serious eye damage.  
 Harmful if inhaled.  
 May cause cancer.

**Precautionary Statements**

**Prevention:**

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves and eye/face protection.  
 Do not eat, drink or smoke when using this product.  
 Wash thoroughly after handling.

**Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Immediately call a POISON CENTER or doctor/physician.  
 Rinse mouth.  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

95% of the mixture consists of ingredients of unknown acute oral toxicity.

99% of the mixture consists of ingredients of unknown acute inhalation toxicity.

**SECTION 3: Composition/information on ingredients**

| Ingredient   | C.A.S. No. | % by Wt                |
|--|------------|------------------------|
| Pulaskite (composition varies naturally; typically contains feldspars, nepheline, analcite, pyroxene, amphibole, magnetite, and biotite) | Mixture    | 90 - 95 Trade Secret * |
| Ceramic  | 66402-68-4 | 3 - 5 Trade Secret *   |
| Copper (I) Oxide   | 1317-39-1  | 3 - 5 Trade Secret *   |
| Titanium Dioxide   | 13463-67-7 | < 1.5 Trade Secret *   |
| Quartz (a component of Pulaskite)  | 14808-60-7 | < 0.9 Trade Secret *   |
| Carbon Black   | 1333-86-4  | < 0.7 Trade Secret *   |
| Chromium oxide (Cr2O3)   | 1308-38-9  | < 0.2 Trade Secret *   |
| Oil  | 64742-52-5 | < 0.2 Trade Secret *   |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

**SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

**Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin Contact:**

Wash with soap and water. If signs/symptoms develop, get medical attention.

**Eye Contact:**

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

**If Swallowed:**

Rinse mouth. If you feel unwell, get medical attention.

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

Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

#### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

Non-combustible. Use a fire fighting agent suitable for surrounding fire.

#### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

#### 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Use wet sweeping compound or water to avoid dusting. Sweep up. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapors/spray. Granules are not respirable. Dust generated during handling may contain respirable material. 3M does not recommend material handling methods that could damage the coating or base mineral. In particular, roofing granules should not be conveyed pneumatically, via screw conveyors, or used as a sand blasting media.

These uses can cause coating and base mineral attrition which may lead to increased levels of dust generation. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Use personal protective equipment (gloves, respirators, etc.) as required. Do not handle until all safety precautions have been read and understood.

## 7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient                        | C.A.S. No. | Agency | Limit type   | Additional Comments  |
|-----------------------------------|------------|--------|--|--|
| CHROMIUM (II) COMPOUNDS           | 1308-38-9  | OSHA   | TWA(as Cr):0.5 mg/m <sup>3</sup>   |  |
| CHROMIUM (III) COMPOUNDS          | 1308-38-9  | ACGIH  | TWA(as Cr(III), inhalable fraction):0.003 mg/m <sup>3</sup> ;TWA(as Cr):0.5 mg/m <sup>3</sup>  | A4: Not class. as human carcin                                   |
| CHROMIUM (III) COMPOUNDS          | 1308-38-9  | OSHA   | TWA(as Cr):0.5 mg/m <sup>3</sup>   |  |
| Chromium(3+), soluble salts       | 1308-38-9  | ACGIH  | TWA(as Cr(III), inhalable fraction):0.003 mg/m <sup>3</sup>  | A4: Not class. as human carcin,<br>Dermal/Respiratory Sensitizer |
| Chromium, insoluble salts         | 1308-38-9  | OSHA   | TWA(as Cr):1 mg/m <sup>3</sup>   |  |
| COPPER COMPOUNDS                  | 1317-39-1  | ACGIH  | TWA(as Cu, fume):0.2 mg/m <sup>3</sup> ;TWA(as Cu dust or mist):1 mg/m <sup>3</sup>  |  |
| Carbon Black                      | 1333-86-4  | ACGIH  | TWA(inhalable fraction):3 mg/m <sup>3</sup>  | A3: Confirmed animal carcin.                                     |
| Carbon Black                      | 1333-86-4  | OSHA   | TWA:3.5 mg/m <sup>3</sup>  |  |
| Titanium Dioxide                  | 13463-67-7 | ACGIH  | TWA:10 mg/m <sup>3</sup>   | A4: Not class. as human carcin                                   |
| Titanium Dioxide                  | 13463-67-7 | OSHA   | TWA(as total dust):15 mg/m <sup>3</sup>  |  |
| Quartz (a component of Pulaskite) | 14808-60-7 | ACGIH  | TWA(respirable fraction):0.025 mg/m <sup>3</sup>   | A2: Suspected human carcin.                                      |
| Quartz (a component of Pulaskite) | 14808-60-7 | OSHA   | TWA Table Z-1(respirable):0.05 mg/m <sup>3</sup> ;TWA Table Z-3(respirable):0.1 mg/m <sup>3</sup> ;TWA concentration(respirable):0.1 mg/m <sup>3</sup> (2.4 millions of particles/cu. ft.) |  |
| Paraffin oil                      | 64742-52-5 | OSHA   | TWA(as mist):5 mg/m <sup>3</sup>   |  |
| PETROLEUM DISTILLATES             | 64742-52-5 | OSHA   | TWA:2000 mg/m <sup>3</sup> (500 ppm)   |  |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Provide local exhaust ventilation at transfer points. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full Face Shield

Indirect Vented Goggles

#### Skin/hand protection

No chemical protective gloves are required.

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state

Solid

Color

Gray

Specific Physical Form:

Granules

Odor

Slight Oily

Odor threshold

*Not Applicable*

pH

[Details:CONDITIONS: SL BASIC]*Not Applicable*

Melting point

*Not Applicable*

Boiling Point

*Not Applicable*

Flash Point

No flash point

Evaporation rate

*Not Applicable*

Flammability (solid, gas)

Not Classified

Flammable Limits(LEL)

*Not Applicable*

Flammable Limits(UEL)

*Not Applicable*

Vapor Pressure

*Not Applicable*

Vapor Density

*Not Applicable*

Specific Gravity

2.55 - 2.70 [Ref Std:WATER=1]

Solubility in Water

Negligible

Solubility- non-water

*Not Applicable*

Partition coefficient: n-octanol/ water

*Not Applicable*

Autoignition temperature

*Not Applicable*

Decomposition temperature

*Not Applicable*

Viscosity

*Not Applicable*

Molecular weight  
Percent volatile

No Data Available  
Nil

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

Substance

None known.

Condition

Not Specified

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

Harmful if inhaled. Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

#### Skin Contact:

Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

#### Eye Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

#### Ingestion:

Harmful if swallowed. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea,

vomiting and diarrhea.

#### Additional Health Effects:

#### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| Ingredient  | CAS No.    | Class Description              | Regulation                                  |
|---|------------|--------------------------------|---|
| Silica, Crystalline (Respirable Size)                           | 14808-60-7 | Known To Be Human Carcinogen.  | National Toxicology Program Carcinogens     |
| Carbon black  | 1333-86-4  | Grp. 2B: Possible human carc.  | International Agency for Research on Cancer |
| Silica dust, crystalline, in the form of quartz or cristobalite | 14808-60-7 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Titanium dioxide  | 13463-67-7 | Grp. 2B: Possible human carc.  | International Agency for Research on Cancer |

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

| Name                              | Route                          | Species                | Value   |
|-----------------------------------|--------------------------------|------------------------|---|
| Overall product                   | Inhalation-Dust/Mist(4 hr)     |                        | No data available; calculated ATE >1 - =5 mg/l        |
| Overall product                   | Ingestion                      |                        | No data available; calculated ATE >300 - =2,000 mg/kg |
| Ceramic                           | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg                    |
| Ceramic                           | Ingestion                      |                        | LD50 estimated to be 2,000 - 5,000 mg/kg              |
| Copper (I) Oxide                  | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                                    |
| Copper (I) Oxide                  | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 3.3 mg/l   |
| Copper (I) Oxide                  | Ingestion                      | Rat                    | LD50 500 mg/kg  |
| Titanium Dioxide                  | Dermal                         | Rabbit                 | LD50 > 10,000 mg/kg                                   |
| Titanium Dioxide                  | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 6.82 mg/l                                      |
| Titanium Dioxide                  | Ingestion                      | Rat                    | LD50 > 10,000 mg/kg                                   |
| Carbon Black                      | Dermal                         | Rabbit                 | LD50 > 3,000 mg/kg                                    |
| Carbon Black                      | Ingestion                      | Rat                    | LD50 > 8,000 mg/kg                                    |
| Quartz (a component of Pulaskite) | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg                    |
| Quartz (a component of Pulaskite) | Ingestion                      |                        | LD50 estimated to be > 5,000 mg/kg                    |
| Chromium oxide (Cr2O3)            | Dermal                         | Professional judgement | LD50 estimated to be > 5,000 mg/kg                    |
| Chromium oxide (Cr2O3)            | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 5.41 mg/l                                      |
| Chromium oxide (Cr2O3)            | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                                    |
| Oil                               | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                                    |
| Oil                               | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                                    |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                              | Species      | Value                     |
|-----------------------------------|--------------|---------------------------|
| Ceramic                           | Rabbit       | No significant irritation |
| Copper (I) Oxide                  | Rabbit       | No significant irritation |
| Titanium Dioxide                  | Rabbit       | No significant irritation |
| Carbon Black                      | Rabbit       | No significant irritation |
| Quartz (a component of Pulaskite) | Professional | No significant irritation |

|                        |                      |                           |
|------------------------|----------------------|---------------------------|
|                        | nal<br>judgeme<br>nt |                           |
| Chromium oxide (Cr2O3) | Rabbit               | No significant irritation |
| Oil                    | Rabbit               | Minimal irritation        |

**Serious Eye Damage/Irritation**

| Name                   | Species | Value                     |
|------------------------|---------|---------------------------|
| Ceramic                | Rabbit  | Mild irritant             |
| Copper (I) Oxide       | Rabbit  | Corrosive                 |
| Titanium Dioxide       | Rabbit  | No significant irritation |
| Carbon Black           | Rabbit  | No significant irritation |
| Chromium oxide (Cr2O3) | Rabbit  | No significant irritation |
| Oil                    | Rabbit  | Mild irritant             |

**Skin Sensitization**

| Name                   | Species           | Value          |
|------------------------|-------------------|----------------|
| Copper (I) Oxide       | Guinea pig        | Not classified |
| Titanium Dioxide       | Human and animal  | Not classified |
| Chromium oxide (Cr2O3) | similar compounds | Not classified |
| Oil                    | Guinea pig        | Not classified |

**Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name                              | Route    | Value  |
|-----------------------------------|----------|--|
| Ceramic                           | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Copper (I) Oxide                  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Titanium Dioxide                  | In Vitro | Not mutagenic  |
| Titanium Dioxide                  | In vivo  | Not mutagenic  |
| Carbon Black                      | In Vitro | Not mutagenic  |
| Carbon Black                      | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Quartz (a component of Pulaskite) | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Quartz (a component of Pulaskite) | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Chromium oxide (Cr2O3)            | In vivo  | Not mutagenic  |
| Chromium oxide (Cr2O3)            | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name             | Route      | Species                 | Value  |
|------------------|------------|-------------------------|--|
| Ceramic          | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Titanium Dioxide | Ingestion  | Multiple animal species | Not carcinogenic   |
| Titanium Dioxide | Inhalation | Rat                     | Carcinogenic   |
| Carbon Black     | Dermal     | Mouse                   | Not carcinogenic   |
| Carbon Black     | Ingestion  | Mouse                   | Not carcinogenic   |



|                                   |            |                  |  |
|-----------------------------------|------------|------------------|--|
| Carbon Black                      | Inhalation | Rat              | Carcinogenic   |
| Quartz (a component of Pulaskite) | Inhalation | Human and animal | Carcinogenic   |
| Chromium oxide (Cr2O3)            | Ingestion  | Rat              | Not carcinogenic   |
| Oil                               | Ingestion  | Rat              | Not carcinogenic   |
| Oil                               | Dermal     | Mouse            | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name                   | Route     | Value                                  | Species | Test Result           | Exposure Duration |
|------------------------|-----------|--|---------|-----------------------|-------------------|
| Chromium oxide (Cr2O3) | Ingestion | Not classified for female reproduction | Rat     | NOAEL 2,000 mg/kg/day | 90 days           |
| Chromium oxide (Cr2O3) | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 2,000 mg/kg/day | 90 days           |
| Chromium oxide (Cr2O3) | Ingestion | Not classified for development         | Rat     | NOAEL 2,000 mg/kg/day | 90 days           |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name                   | Route      | Target Organ(s)        | Value  | Species                | Test Result         | Exposure Duration |
|------------------------|------------|------------------------|--|------------------------|---------------------|-------------------|
| Copper (I) Oxide       | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |
| Chromium oxide (Cr2O3) | Inhalation | respiratory system     | Not classified   | Rat                    | NOAEL 40 mg         |                   |
| Oil                    | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification |                        | NOAEL Not available |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name                              | Route      | Target Organ(s)   | Value  | Species                 | Test Result         | Exposure Duration     |
|-----------------------------------|------------|---|--|-------------------------|---------------------|-----------------------|
| Ceramic                           | Inhalation | pulmonary fibrosis  | Not classified   | Multiple animal species | NOAEL not available |                       |
| Ceramic                           | Inhalation | respiratory system  | Not classified   | Human                   | NOAEL not available | occupational exposure |
| Copper (I) Oxide                  | Inhalation | immune system   respiratory system   heart   endocrine system   hematopoietic system   liver   nervous system   kidney and/or bladder | Not classified   | Rat                     | NOAEL 0.002 mg/l    | 28 days               |
| Titanium Dioxide                  | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 0.01 mg/l     | 2 years               |
| Titanium Dioxide                  | Inhalation | pulmonary fibrosis  | Not classified   | Human                   | NOAEL Not available | occupational exposure |
| Carbon Black                      | Inhalation | pneumoconiosis  | Not classified   | Human                   | NOAEL Not available | occupational exposure |
| Quartz (a component of Pulaskite) | Inhalation | silicosis   | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available | occupational exposure |
| Chromium oxide (Cr2O3)            | Inhalation | immune system   respiratory system   hematopoietic system   liver   | Not classified   | Rat                     | NOAEL 44 mg/m3      | 90 days               |

|  |  |                       |  |  |  |  |
|--|--|-----------------------|--|--|--|--|
|  |  | kidney and/or bladder |  |  |  |  |
|--|--|-----------------------|--|--|--|--|

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information**

**Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

**Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

**SECTION 13: Disposal considerations**

**13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility.

**SECTION 14: Transport Information**

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

**SECTION 15: Regulatory information**

**15.1. US Federal Regulations**

Contact 3M for more information.

**EPCRA 311/312 Hazard Classifications:**

|                         |
|-------------------------|
| <b>Physical Hazards</b> |
| Not applicable          |

|                                      |
|--------------------------------------|
| <b>Health Hazards</b>                |
| Acute toxicity                       |
| Carcinogenicity                      |
| Serious eye damage or eye irritation |

**Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):**

| <b>Ingredient</b>   | <b>C.A.S. No</b> | <b>% by Wt</b>     |
|---|------------------|--------------------|
| Copper (I) Oxide (Copper compounds except copper phthalocyanine compounds substituted with only H and/or Cl and/or Br (C32R16CuN8, R=any combination of H,Cl,Br)) | 1317-39-1        | Trade Secret 3 - 5 |

## FIFRA

**Status**

Registered

**Registration Number**

10350-63

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

3M 7000 Series Copper Granules

Built-in control of algae to maintain the beauty of roofing materials

## ACTIVE INGREDIENT

|  |         |
|--|---------|
| *Cuprous oxide (CAS number: 1317-39-1)                   | 3.28%   |
| OTHER INGREDIENTS  | 96.72%  |
| Total  | 100.00% |
| *(Equivalent to Metallic copper (CAS number: 7440-50-8)) | 2.92%   |

## KEEP OUT OF REACH OF CHILDREN

## CAUTION

## PRECAUTIONARY STATEMENTS

## Engineering Controls

Use with appropriate local exhaust ventilation and at transfer points to manage particulates.

## Personal Protective Equipment

Avoid eye and prolonged skin contact. Use gloves (leather, nitrile rubber or polyethylene) and wear protective clothing (long-sleeved shirt, long pants) to reduce skin contact. Safety Glasses with side shields are recommended. Note: Because manufacturing location conditions vary widely, please consult product Safety Data Sheet (SDS) for detailed particulate respiratory protection considerations while manufacturing with this product.

## User Safety Requirements

Discard disposable PPE at the end of use as directed by manufacturer. For reusable PPE, follow manufacturer's instructions for cleaning and maintenance. If no instructions for washables exist, use detergent and hot water.

## User Safety Recommendations

User must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

## Pesticide Storage:

Store under ambient conditions.

## Pesticide Disposal:

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to an approved waste disposal facility. Since regulations vary, consult applicable regulations or authorities before disposal.

## Pesticide Container Disposal:

Where appropriate, return empty bulk bags to 3M for reuse.

Refillable Container. Refill this container with 3M Copper Granules only. Do not reuse this container for any other purpose. Bags should be emptied of any residual granules prior to refilling. When bag condition warrants disposal, dispose of bag in a sanitary landfill or offer for recycling if available or reconditioning if appropriate.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

If granules are to be stored prior to (and during) use, a copy of this label must be made readily accessible to employees when they are in their work area(s).

3M 7000 Series Copper Granules contain cuprous oxide, an effective algacide for inhibiting the growth of blue-green algae that can stain roofing materials. The granules are treated roofing granules 1-2 mm in diameter made from rock coated with cuprous oxide and sealed in a ceramic shell. The ceramic shell allows a timed release of copper to provide long-lasting

algae control that extends the useful life of roofing materials. The granules are colored to match the roofing materials. 3M 7000 Series Copper Granules should be mixed with standard roofing granules at the rate of 5-20% by weight and processed normally during manufacture of the roofing materials.

**WARRANTY**

3M warrants that 3M 7000 Series Copper Granules conform to the ingredient statement above.

EPA Reg. No. 10350-63  
 EPA Est. No. 10350-AR-001  
 ( \_\_\_\_\_ lbs)

Net Contents: Bulk shipment; see waybill

Manufactured by 3M Company  
 Headquarters: 3M Center, St. Paul, MN 55144-1000

**15.2. State Regulations**

Contact 3M for more information.

**California Proposition 65**

| <u>Ingredient</u>  | <u>C.A.S. No.</u> | <u>Listing</u> |
|--|-------------------|----------------|
| Silica, crystalline (airborne particles of respirable size)                      | None              | Carcinogen     |
| Carbon black (airborne, unbound particles of respirable size [= 10 micrometers]) | 1333-86-4         | Carcinogen     |
| Titanium dioxide (airborne, unbound particles of respirable size)                | 13463-67-7        | Carcinogen     |

**15.3. Chemical Inventories**

Contact 3M for more information.

**15.4. International Regulations**

Contact 3M for more information.

**This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

**SECTION 16: Other information**

**NFPA Hazard Classification**

**Health:** 3 **Flammability:** 0 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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