



## Safety Data Sheet

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

#### 1.1. Product identifier

3M Brand Roofing Granules - 9900L Highly Reflective Bright White (Little Rock, AR)

#### Product Identification Numbers

LA-F100-2619-2, 98-0701-4434-4, 98-0701-4435-1  
7100154658, 7100154659

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

##### Recommended use

Granules for coating 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

Carcinogenicity: Category 1A.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Health Hazard |

##### Pictograms

**Hazard Statements**

May cause cancer.

**Precautionary Statements****Prevention:**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.

**Response:**

If exposed or concerned: Get medical advice/attention.

**Storage:**

Store locked up.

**Disposal:**

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

39% of the mixture consists of ingredients of unknown acute oral toxicity.

### SECTION 3: Composition/information on ingredients

| Ingredient  | C.A.S. No. | % by Wt                |
|---|------------|------------------------|
| Pulaskite (composition varies naturally, typically contains feldspars, pyroxene, amphibole, nepheline, analcime, biotite, magnetite and ilmenite) | Mixture    | 40 - 55 Trade Secret * |
| Quartz Silica (a component of Pulaskite)  | 14808-60-7 | < 1 Trade Secret *     |
| Ceramic   | 66402-68-4 | 20 - 70 Trade Secret * |
| Kaolin, calcined  | 92704-41-1 | 4 - 20 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:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, 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

See Section 11.1. Information on toxicological effects.

#### 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

Ventilate the area with fresh air. 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 handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protective equipment (gloves, respirators, etc.) as required. 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.

### 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         |
|--|------------|--------|---|-----------------------------|
| Quartz Silica (a component of Pulaskite) | 14808-60-7 | ACGIH  | TWA(respirable fraction):0.025 mg/m <sup>3</sup>  | A2: Suspected human carcin. |
| Quartz Silica (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> |                             |

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:

Safety Glasses with side shields

#### 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

**General Physical Form:**

Solid

**Specific Physical Form:**

Granules

**Odor, Color, Grade:**

White granules, typical particle size 0.84-2.0 mm

**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                        | 2.6 - 2.7 [Ref Std: WATER=1] |
| Solubility In Water                     | Not Applicable               |
| Solubility- non-water                   | Not Applicable               |
| Partition coefficient: n-octanol/ water | Not Applicable               |
| Autoignition temperature                | Not Applicable               |
| Decomposition temperature               | Not Applicable               |
| Viscosity                               | Not Applicable               |
| Percent volatile                        | 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

## 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:

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:**

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

**Ingestion:**

May be 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, CRYSTAL AIRRESP                  | 14808-60-7 | Known human carcinogen         | National Toxicology Program Carcinogens     |
| Quartz Silica (a component of Pulaskite) | 14808-60-7 | Grp. 1: Carcinogenic to humans | 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                          | Ingestion |         | No data available; calculated ATE 2,000 - 5,000 mg/kg |
| Ceramic                                  | Dermal    |         | LD50 estimated to be > 5,000 mg/kg                    |
| Ceramic                                  | Ingestion |         | LD50 estimated to be 2,000 - 5,000 mg/kg              |
| Kaolin, calcined                         | Dermal    |         | LD50 estimated to be 2,000 - 5,000 mg/kg              |
| Kaolin, calcined                         | Ingestion | Rat     | LD50 > 2,000 mg/kg                                    |
| Quartz Silica (a component of Pulaskite) | Dermal    |         | LD50 estimated to be > 5,000 mg/kg                    |
| Quartz Silica (a component of Pulaskite) | Ingestion |         | LD50 estimated to be > 5,000 mg/kg                    |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                     | Species                | Value                     |
|--|------------------------|---------------------------|
| Ceramic                                  | Rabbit                 | No significant irritation |
| Quartz Silica (a component of Pulaskite) | Professional judgement | No significant irritation |

**Serious Eye Damage/Irritation**

| Name    | Species | Value         |
|---------|---------|---------------|
| Ceramic | Rabbit  | Mild irritant |

**Skin Sensitization**

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

**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 |
| Quartz Silica (a component of Pulaskite) | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Quartz Silica (a component of Pulaskite) | In vivo  | 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 |
| Quartz Silica (a component of Pulaskite) | Inhalation | Human and animal        | Carcinogenic   |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

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

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

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

**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 |
| Quartz Silica (a component of Pulaskite) | Inhalation | silicosis          | Causes damage to organs through prolonged or repeated exposure | Human                   | NOAEL Not available | occupational exposure |

**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.

**EPA Hazardous Waste Number (RCRA):** Not regulated

**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:****Physical Hazards**

Not applicable

**Health Hazards**

Carcinogenicity

**15.2. State Regulations**

Contact 3M for more information.

**California Proposition 65****Ingredient**

SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE)

**C.A.S. No.**

None

**Listing**

Carcinogen

**15.3. Chemical Inventories**

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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: 1 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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