

# HOJA DE SEGURIDAD DE PRODUCTO

## ROOFING GRANULES

### I. PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b>	3M Brand Roofing Granules - WA2200 (Wausau, WI)
<b>MANUFACTURER:</b>	3M
<b>DIVISION:</b>	Industrial Mineral Division
<b>ADDRESS:</b>	3M Center, St. Paul, MN 55144-1000
<b>ISSUE DATE:</b>	10/19/12
<b>SUPERCEDES DATE:</b>	09/23/10
<b>DOCUMENT GROUP:</b>	19-3252-4
<b>INTENDED USE:</b>	Granules for coating roofing shingles.
<b>EMERGENCY PHONE:</b>	1-800-424-9300

### II. INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
Meta-Rhyolite (composition varies naturally, typically contains feldspars, pyroxene, biotite, magnetite, ilmenite, hematite and calcite)	Mixture	60 - 70
Quartz (a component of Meta-Rhyolite)	14808-60-7	25 - 35
Ceramic	Trade Secret	0.5 - 1.5
Inorganic Pigments	Mixture	0.1 - 1
Oil	64742-52-5	< 0.5

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# HOJA DE SEGURIDAD DE PRODUCTO

## III HAZARDS IDENTIFICATION

### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Granules

**Odor, Color, Grade:** Red colors, slightly oily odor, typical particle size 0.84-2.0 mm

**General Physical Form:** Solid

**Immediate health, physical, and environmental hazards:** Granules are not respirable. Dust generated during handling may contain respirable material. Contains a chemical or chemicals which can cause cancer.

### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**

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

**Skin Contact:**

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

**Inhalation:**

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

Prolonged or repeated exposure may cause:

Silicosis: Signs/symptoms may include breathlessness, weakness, chest pain, persistent cough, increased amounts of sputum, and heart disease.

**Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

**Ingredient**

Quartz (a component of  
Meta-Rhyolite)

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

14808-60-7

**Class Description**

Grp. 1: Carcinogenic to  
humans

**Regulation**

International Agency for  
Research on Cancer

## IV FIRST AID MEASURES

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

**Inhalation:** Remove person to fresh air. If signs/symptoms develop, get medical attention.

**If Swallowed:** Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

## V FIRE FIGHTING MEASURES

### 5.1 FLAMMABLE PROPERTIES

Autoignition temperature *Not Applicable*

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# HOJA DE SEGURIDAD DE PRODUCTO

**Flash Point:** *Not Applicable*  
**Flammable Limits(LEL)** *Not Applicable*  
**Flammable Limits(UEL)** *Not Applicable*

## 5.2 EXTINGUISHING MEDIA

Non-combustible. Choose material suitable for surrounding fire. Material will not burn.

## 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).  
**Unusual Fire and Explosion Hazards:** Not applicable.

## VI ACCIDENTAL RELEASE MEASURES

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

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode.

### 6.2. Environmental precautions

Reclaim undamaged product. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

### Clean-up methods

Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Collect as much of the spilled material as possible. Use wet sweeping compound or water to avoid dusting. Sweep up. Clean up residue.

**In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.**

## VII HANDLING AND STORAGE

### 7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. For industrial or professional use only. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment. 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 STORAGE

Not applicable.

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# HOJA DE SEGURIDAD DE PRODUCTO

## VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Provide local exhaust ventilation at transfer points. Use in an enclosed process area is recommended.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact. The following eye protection(s) are recommended: Safety Glasses with side shields.

#### 8.2.2 Skin Protection

Avoid prolonged or repeated skin contact. Gloves not normally required.

#### 8.2.3 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 mask R95 particulate respirator. Half mask or full facepiece air-purifying respirator with N100 particulate filters. Half facepiece or full facepiece air-purifying respirator suitable for particulates. For questions about suitability for a specific application, consult with your respirator manufacturer.

#### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Wash hands after handling and before eating.

### 8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
Quartz (a component of Meta-Rhyolite)	ACGIH	TWA, respirable fraction	0.025 mg/m <sup>3</sup>	
Quartz (a component of Meta-Rhyolite)	OSHA	TWA concentration, respirable	0.1 mg/m <sup>3</sup>	
Quartz (a component of Meta-Rhyolite)	OSHA	TWA concentration, as total dust	0.3 mg/m <sup>3</sup>	

#### SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

## IX PHYSICAL AND CHEMICAL PROPERTIES

**Specific Physical Form:** Granules

**Odor, Color, Grade:** Red colors, slightly oily odor, typical particle size 0.84-2.0 mm

**General Physical Form:** Solid

**Autoignition temperature** *Not Applicable*

**Flash Point** *Not Applicable*

**Flammable Limits(LEL)** *Not Applicable*

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# HOJA DE SEGURIDAD DE PRODUCTO

**Flammable Limits(UEL)** *Not Applicable*  
**Specific Gravity** 2.60 - 2.75 [*Ref Std: WATER=1*]  
**Melting point** *Not Applicable*  
**Solubility In Water** *Not Applicable*  
**Percent volatile** Nil

## X STABILITY AND REACTIVITY

**Stability:** Stable.  
**Materials and Conditions to Avoid:**  
**10.1 Conditions to avoid**  
None known  
**10.2 Materials to avoid**  
None known  
**Hazardous Polymerization:** Hazardous polymerization will not occur.  
**Hazardous Decomposition:** NONE

## XI TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

## XII ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION**  
Not determined.

**CHEMICAL FATE INFORMATION**  
Not determined.

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# HOJA DE SEGURIDAD DE PRODUCTO

## XIII DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose of waste product in a sanitary landfill. As a disposal alternative, incinerate in an industrial or commercial facility in the presence of a combustible material.

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

## XIV TRANSPORT INFORMATION

**ID Number(s):**

98-0111-1216-0, 98-0111-1916-5

## XV REGULATORY INFORMATION

**US FEDERAL REGULATIONS**

Contact 3M for more information.

**311/312 Hazard Categories:**

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

**STATE REGULATIONS**

Contact 3M for more information.

**CHEMICAL INVENTORIES**

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

**INTERNATIONAL REGULATIONS**

Contact 3M for more information.

**ADDITIONAL INFORMATION**

Not California Code of Regulations (CCR) Title 22 hazardous waste.

## XVI OTHER INFORMATION

**NFPA Hazard Classification**

Health: 1 Flammability: 0 Reactivity: 0 Special Hazards: None

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