

# **Material Safety Data Sheet**

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## **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:**3M Brand Roofing Granules - 7100W, 7600W & 7700W (Wausau, WI)**MANUFACTURER:**3M**DIVISION:**Industrial Mineral Products

ADDRESS: 3M Center, St. Paul, MN 55144-1000

#### EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

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#### Product Use:

Intended Use:

Granules for coating roofing shingles.

## **SECTION 2: INGREDIENTS**

<u>Ingredient</u> Meta-Rhyolite (composition varies naturally, typically contains feldspars, pyroxene, biotite, magnetite, ilmenite, hematite and calcite)	<u>C.A.S. No.</u> Mixture	<u>% by Wt</u> 60 - 70
Quartz (a component of Meta-Rhyolite)	14808-60-7	25 - 35
Ceramic	Trade Secret	1 - 3
Inorganic Pigments	Mixture	0.1 - 1
Oil	64742-52-5	< 0.5
Titanium Dioxide	13463-67-7	0 - 0.3
Chromium (III) Oxide	1308-38-9	< 0.1
Carbon Black	1333-86-4	< 0.05

# **SECTION 3: HAZARDS IDENTIFICATION**

### **3.1 EMERGENCY OVERVIEW**

Specific Physical Form: Granules
Odor, Color, Grade: Grey 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.

<u>Ingredient</u>	<u>C.A.S. No.</u>	Class Description	<b>Regulation</b>
Quartz (a component of Meta-Rhyolite)	14808-60-7	Grp. 1: Carcinogenic to	International Agency for Research on Cancer
		humans	
SILICA, CRYSTALLINE (AIRBORNE	SEQ677	Grp. 1: Carcinogenic to	International Agency for Research on Cancer
PARTICLES OF RESPIRABLE SIZE)		humans	
SILICA, CRYSTALLINE (AIRBORNE	SEQ677	Known human carcinogen	National Toxicology Program Carcinogens
PARTICLES OF RESPIRABLE SIZE)			
Titanium Dioxide	13463-67-7	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

# **SECTION 4: 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 unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

## **SECTION 5: FIRE FIGHTING MEASURES**

#### 5.1 FLAMMABLE PROPERTIES

Autoignition temperature Flash Point Flammable Limits(LEL) Flammable Limits(UEL) *Not Applicable* No flash point *Not Applicable 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.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Using appropriate and recommended personal protective equipment, sweep up the spilled material.

#### **6.2. Environmental precautions**

Reclaim undamaged product.

#### 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. Clean up residue with detergent and water.

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.

# SECTION 7: 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.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Provide local exhaust ventilation at transfer points.

## 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

Ingredient	<u>Authority</u>	Type	<u>Limit</u>	Additional Information
CHROMIUM (III) COMPOUNDS	OSHA	TWA, as Cr	0.5 mg/m3	
Chromium, insoluble salts	OSHA	TWA, as Cr	1 mg/m3	
Quartz (a component of Meta-Rhyolite)	ACGIH	TWA, respirable	0.025 mg/m3	
		fraction		
Quartz (a component of Meta-Rhyolite)	OSHA	TWA concentration,	0.1 mg/m3	
		respirable		
Quartz (a component of Meta-Rhyolite)	OSHA	TWA concentration,	0.3 mg/m3	
		as total dust		
Titanium Dioxide	ACGIH	TWA	10 mg/m3	
Titanium Dioxide	CMRG	TWA, as respirable	5 mg/m3	
		dust		
Titanium Dioxide	OSHA	TWA, as total dust	15 mg/m3	

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)

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Specific Physical Form: Odor, Color, Grade: General Physical Form: Autoignition temperature Flash Point Flammable Limits(LEL) Flammable Limits(UEL) Boiling Point Specific Gravity Melting point Solubility In Water Percent volatile Granules Grey colors, slightly oily odor, typical particle size 0.84-2.0 mm Solid *Not Applicable* Not Applicable *Not Applicable* 2.60 - 2.75 [*Ref Std:* WATER=1] *Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable* 

# SECTION 10: 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

## **SECTION 11: TOXICOLOGICAL INFORMATION**

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

# **SECTION 12: ECOLOGICAL INFORMATION**

## ECOTOXICOLOGICAL INFORMATION

Not determined.

## CHEMICAL FATE INFORMATION

Not determined.

# SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Since regulations vary, consult applicable regulations or authorities before disposal.

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

Since regulations vary, consult applicable regulations or authorities before disposal.

# **SECTION 14:TRANSPORT INFORMATION**

#### **ID** Number(s):

98-0111-1221-0, 98-0111-1222-8, 98-0111-1288-9, 98-0111-1925-6, 98-0111-1926-4, 98-0111-1927-2, 98-0111-1928-0, 98-0213-4428-2

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

# **SECTION 15: 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.

#### CALIFORNIA PROPOSITION 65

<u>Ingredient</u>	<u>C.A.S. No.</u>	<b>Classification</b>
SILICA, CRYSTALLINE (AIRBORNE	None	**Carcinogen
PARTICLES OF RESPIRABLE SIZE)		
Titanium Dioxide	13463-67-7	**Carcinogen

\*\* WARNING: contains a chemical which can cause cancer.

### **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.

This MSDS 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 Reactivity: 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.

#### Revision Changes:

Section 14: ID Number(s) Template 1 information was modified.

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