

3M Canada Company
 1840 Oxford Street East, Post Office Box 5757
 London, Ontario N6A 4T1
 Medical Emergency Telephone: (519) 451-2500, Ext. 2222
 Transportation Emergency Telephone (CANUTEC): (613) 996-6666

=====
 Material Safety Data Sheet
 =====

Document id : 20-2328-1 Issue date : 2009/07/08
 Version : 6.00 Supersedes date : 2005/09/07

Copyright, 1997, 3M Canada Company. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Prepared by: Corporate Regulatory Services, 3M Canada Company
 Telephone: (800) 364-3577, Fax: (800) 603-7758, Web Site: www.3M.ca

 Chemical Product and Company Identification

Tradename:

3M BRAND ROOFING GRANULES - BE9300 (BELLE MEAD, NJ) (INACTIVE)

Product ID:

98-0111-1956-1 98-0111-1642-7 98-0111-1267-3 98-0111-1975-1
 98-0213-4433-2 98-0213-4434-0

Intended Use of Product:

Granules for coating roofing shingles.

Division:

INDUSTRIAL MINERAL DIVISION

 2 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
Diabase (comp. varies naturally, typically contains feldspars, pyroxene, biotite, olivine, magnetite, ilmenite, chlorite, amphibole, & calcite)	Mixture	92 96
QUARTZ (A COMPONENT OF DIABASE)	14808-60-7	1 2
SODIUM BASED GLASS	Trade Secret	2 - 4
INORGANIC PIGMENTS	Trade Secret	0.1 0.5
OIL	64742-52-5	0.1 0.5
NOTE:		

3M BRAND ROOFING GRANULES - BE9300 (BELLE MEAD, Page 2 of 8
 NJ) (INACTIVE)

SODIUM BASED GLASS is a non-hazardous Trade Secret material according to WHMIS criteria.
 INORGANIC PIGMENTS is a non-hazardous Trade Secret material according to WHMIS criteria.
 Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

3 Hazards Identification

Critical Hazards:

Prolonged or repeated exposure may cause: Silicosis:
 Signs/symptoms can include breathlessness, weakness, chest pain, persistent cough, increased amounts of sputum, and heart disease.
 WARNING: Contains a chemical which can cause cancer. (14808-60-7)
 (NTP known human carcinogen, IARC human carcinogen 1, Calif. Proposition 65)
 Granules are not respirable. Dust generated during handling may contain respirable material.
 See Sections 7 and 11 for further information.

4 First Aid Measures

Instructions for Eye Contact:

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

Instructions for Skin Contact:

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

Instructions for Inhalation:

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

Instructions for Ingestion:

Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention. No need for first aid is anticipated.

5 Fire Fighting Measures

Flash point:	Not applicable
Lower Explosive Limit (%):	Not applicable
Upper Explosive Limit (%):	Not applicable
Autoignition temperature:	Not applicable

Suitable Extinguishing Media:

Non-combustible. Choose material suitable for surrounding fire.

Exposure Hazards during Fire:

Material will not burn.

3M BRAND ROOFING GRANULES - BE9300 (BELLE MEAD, Page 3 of 8
 NJ) (INACTIVE)

 Combustion Products from Fire:

None known.

Unusual Fire and Explosion Hazards

None known.

Fire Fighting Procedures:

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

NFPA: Health	1
NFPA: Fire	0
NFPA: Reactivity	0
NFPA: Unusual Reaction Hazard	none

Special Instructions:

Not applicable.

 6 Accidental Release Measures

Personal Precautions:

Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill.

Spill Response:

Collect as much of the spilled material as possible. Clean up residue with detergent and water. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Methods for Disposal:

Reclaim undamaged product.

 7 Handling and Storage

Storage Requirements:

No data available.

Incompatible Materials:

None known.

Ventilation:

No data available.

Use Instructions:

For industrial or professional use only. 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.

 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact. The following should be worn alone or in combination, as appropriate, to prevent eye contact: Safety glasses with side shields

Skin Protection:

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

Respiratory Protection:

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations: Half facepiece or fullface air-purifying respirator with P100 particulate filters; Half facepiece or fullface air-purifying respirator with P95 particulate filters; Half facepiece or fullface air-purifying respirator with N95 particulate prefilters;

Ingestion (Prevention):

Not applicable. Wash hands after handling and before eating.

Recommended Ventilation:

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

Ingredient Exposure Data

Diabase (comp. varies naturally, typically contains feldspars, pyroxene, biotite, olivine, magnetite, ilmenite, chlorite, amphibole, & calcite (Mixture)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

No data available.

QUARTZ (A COMPONENT OF DIABASE) (14808-60-7)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

ACGIH: TWA 0.025 mg/m3 (Respirable) (Table A2)

SODIUM BASED GLASS (Trade Secret)

3M BRAND ROOFING GRANULES - BE9300 (BELLE MEAD, NJ) (INACTIVE) Page 5 of 8

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

No data available.

INORGANIC PIGMENTS (Trade Secret)

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

No data available.

OIL (64742-52-5)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

> 5 g/kg

LD50 (dermal, rabbit)

> 5 g/kg

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

CMRG: TWA 5 mg/m3 CMRG: STEL 10 mg/m3

9 Physical and Chemical Properties

Physical form, Color, Odour:	Solid; granules; White; Slightly oily odour; Typical particle size: 0.84 2.0 mm
Odour Threshold:	No data available.
pH:	No data available.
Boiling point/boiling range:	Not applicable
Melting point/melting range:	Not applicable
Vapour pressure:	Not applicable
Water Solubility:	Not applicable
Specific gravity:	2.6 2.7 Water=1
Vapour density:	Not applicable
Volatile organic compounds:	Not applicable
Evaporation rate:	Not applicable
Viscosity:	Not applicable
Percent Volatile:	Nil

10 Stability and Reactivity

Conditions to Avoid:

None known.

Materials to Avoid:

None known.

Hazardous Decomposition:

None

Stability and Reactivity:

3M BRAND ROOFING GRANULES - BE9300 (BELLE MEAD, Page 6 of 8
NJ) (INACTIVE)

Stable. Hazardous polymerization will not occur.

11 Toxicological Information

Effects from Eye Contact:

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

Effects from Skin Contact:

Mechanical skin irritation: Signs/symptoms can include abrasion,

redness, pain, and itching.

Effects from 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 can include breathlessness, weakness, chest pain, persistent cough, increased amounts of sputum, and heart disease.

Effects from Ingestion:

No health effects are expected.

Sensitization Information:

No data available.

Carcinogenicity:

WARNING: Contains a chemical which can cause cancer. (14808-60-7) (NTP known human carcinogen, IARC human carcinogen 1, Calif. Proposition 65)

Mutagenicity:

No data available.

Reproductive Effects:

No data available.

Component Based Information:

No data available.

Product Based Information:

No data available.

12 Ecological Information

Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

□

3M BRAND ROOFING GRANULES - BE9300 (BELLE MEAD, NJ) (INACTIVE) Page 7 of 8

13 Disposal Considerations

Product as Sold:

No data available.

Product Packaging:

No data available.

Potential for Recycling:

Reclaim if feasible.

Special Instructions:

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

14 Transport Information

Transportation of Dangerous Goods

TDG Classification: Non-Regulated Material

Special Information:: Contact 3M for more information.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original 3M package is certified for Canadian ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

International Dangerous Goods Classification

 15 Regulatory Information

WHMIS Classification: D2A

NOTE:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Product Certifications:

The product on this MSDS, or all its components, is included on the following countries' chemical inventories, as noted:

TSCA - Toxic Substances Control Act (USA)

3M BRAND ROOFING GRANULES - BE9300 (BELLE MEAD, Page 8 of 8
 NJ) (INACTIVE)

 16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

Added product id(s) to the MSDS;

Update Tradename (Obsolete product)

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a

particular purpose and suitable for user's method of use or application.

---End---

□