



Between the World
and The Weather
Since 1928

SAFETY DATA SHEET

1: IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME: RAM GRANULES

MANUFACTURER'S NAME: Barrett Company, Inc.
33 Stone House Road
Millington, New Jersey 07946

CHEMTREC EMERGENCY PHONE: 800-424-9300
INFORMATION PHONE: 908-647-0100
DATE PREPARED: January 2004

Recommended Use: A component part of commercial low-slope roofing

Restrictions on Use: Should only be used by a Barrett Approved Professional Contractor

2: HAZARDS IDENTIFICATION

Inhalation: Upper respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Prolonged or repeated exposure, above recommended guidelines, may cause:

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

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

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.

Ingestion: No health effects are expected.

Carcinogenicity: Contains a chemical or chemicals which can cause cancer.

Ingredient	C.A.S. No.	Class Description	Regulation
Carbon Black	1333-86-4	Group 2B	International Agency for Research on Cancer
Carbon Black Extracts	None	Group 2B	International Agency for Research on Cancer
Quartz	14808-60-7	Group 1	International Agency for Research on Cancer
Quartz	14808-60-7	Known human carcinogen	National Toxicology Program Carcinogens
Silica, crystalline (airborne particles of respirable size)	None	Group 1	International Agency for Research on Cancer
Silica, crystalline (airborne particles of respirable size)	None	Known human carcinogen	National toxicology Program Carcinogens



Between the World
and The Weather
Since 1928

3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	% Wt
Nepheline Syenite (composition varies naturally, typically contains feldspars, pyroxene, amphibole, nepheline, analcime, biotite, agnetite and ilmenite)	Mixture	95-98
Sodium Based Glass	Trade Secret	0.5 – 2.5
Quartz	14808-60-7	<1.5
Inorganic Pigments	Mixture	<1.5
Carbon Black	1333-86-4	<0.5
Chromium (111) Pigment	1308-38-9	<0.5
Naphthenic Oil	64742-52-5	<0.5

PEL = Permissible Exposure Limits
TLV = Threshold Limit Value
N.E. = Not Established
N.A. = Not Applicable

OSHA = Occupational Safety and Health Administration
ACGIH = American Conference of Governmental Industrial Hygienists

4: FIRST AID MEASURES

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: No need for first aid is anticipated.

5: FIRE FIGHTING MEASURES

Flash Point: Not applicable.

Auto ignition Temperature: Not applicable.

Flammable Limits - LEL: Not applicable.

Flammable Limits - UEL: Not applicable.

Extinguishing Media: Non-combustible. Choose material suitable for surrounding fire.

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Not applicable.



Between the World
and The Weather
Since 1928

6: ACCIDENTAL RELEASE MEASURES

Observe precautions from other sections. Call 800-647-0100 or 201-404-7663 for more information on handling and managing the spill. Reclaim undamaged product. 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.

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.

7: HANDLING AND STORAGE

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.

Storage: Not applicable.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Engineering Controls:** Use with appropriate local exhaust ventilation. Provide local exhaust ventilation at transfer points.
- Eye/Face Protection:** Avoid eye contact. Always use safety glasses with side shields.
- Skin Protection:** Gloves not normally required. Avoid prolonged or repeated skin contact.
- Respiratory Protection:** Select one of the NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half mask R95 particulate respirator. Half mask or full face piece air-purifying respirator with N100 particulate filters. Half face piece or full face air-purifying respirator with P100 particulate filters. Half face piece or full face air-purifying respirator with N95 particulate filters.
- Prevention of Swallowing:** Wash hands after handling and before eating.

EXPOSURE GUIDELINES:

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
ALUMINUM, SOLUBLE SALTS	ACGIH	TWA – Specific form	2 mg/m ³	as A1
ALUMINUM, SOLUBLE SALTS	OSHA	TWA – Specific form	2 mg/m ³	as A1: Table Z-1A
Carbon Black	ACGIH	TWA	3.5 mg/m ³	Table A4
Carbon Black	CMRG	TWA	0.5 mg/m ³	
Carbon Black	OSHA	TWA	3.5 mg/m ³	Table Z-1
CHROMIUM (III) COMPOUNDS	ACGIH	TWA – Specific form	0.5 mg/m ³	As Cr. Table A4
CHROMIUM (III) COMPOUNDS	OSHA	TWA - Specific form	0.5 mg/m ³	As Cr. Table Z-1
COPPER COMPOUNDS	ACGIH	TWA - Specific form	1 mg/m ³	As Cu dust or mist
COPPER COMPOUNDS	OSHA	TWA - Specific form	1 mg/m ³	As dust or mist: Table Z-1A
Naphthenic Oil	CMRG	TWA	5 mg/m ³	
Naphthenic Oil	CMRG	STEL	10 mg/m ³	
Inorganic Pigments	ACGIH	TWA - Specific form	5 mg/m ³	As Fe: Table A4
Inorganic Pigments	OSHA	TWA - As fume	10 mg/m ³	Table Z-1A
MANGANESE COMPONENTS	OSHA	CEIL – Specific form	5 mg/m ³	As Mn: Table Z-1A



Between the World
and The Weather
Since 1928

MANGANESE INORGANIC COMPOUNDS	ACGIH	TWA - Specific form	0.2 mg/m ³	As Mn
Quartz	ACGIH	TWA – Respirable	0.05 mg/m ³	Table A2
Quartz	OSHA	TWA – Respirable	0.1 mg/m ³	Table Z-1A

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)

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Granules
Odor, Color, Grade:	Various colors, slightly oily odor, typical particle size 0.84-2.0 mm
Flash Point:	N/A
Auto ignition temperature:	N/A
Flammable Limits – LEL	N/A
Flammable Limits – UEL	N/A
Specific Gravity (H₂O = 1):	2.5 – 2.6 [Ref. Std.: WATER = 1]
Melting Point:	N/A
Solubility in Water:	N/A

10: STABILITY AND REACTIVITY

- Stability:** Stable.
- Hazardous Polymerization:** Will not occur.
- Materials and Conditions to Avoid:** None known
- Conditions to Avoid:** None known.

11: TOXICOLOGICAL INFORMATION

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

12: ECOLOGICAL INFORMATION

No information available.

13: DISPOSAL CONSIDERATIONS

Reclaim if feasible. Dispose of waste product in a sanitary landfill. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.



Between the World
and The Weather
Since 1928

14: TRANSPORTATION INFORMATION

No information available.

15: REGULATORY INFORMATION

Fire Hazard No **Pressure Hazard** – No **Reactivity Hazard** – No **Immediate Hazard** – No **Delayed Hazard** – Yes

16: OTHER

Date Prepared: January 2004

Disclaimer: The information and recommendations contained herein are to the best of Barrett Company's knowledge and belief, accurate and reliable as of the date issued. Barrett Company does not warrant or guarantee their accuracy or reliability, and Barrett Company shall not be liable for any loss or damage arising out of the use thereof. The information and recommendations are offered for the users' consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. It is also the users' responsibility to make certain that it is relying upon the most recent, updated, information and recommendations available from Barrett Company. The Environmental Information included above as well as the Hazardous Material Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Barrett Company in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Barrett Company's interpretation of the available data. We make no warranty as to the results to be obtained in using any material and, since conditions and methods of use are not under our control, we must necessarily disclaim all warranties of merchantability or fitness for any particular use as well as all liability resulting directly or indirectly from the use of any materials supplied by us.