



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: September 7, 2018

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

2.1. Classification of the substance or mixture

Classification (GHS-US)

Carc. 1A H350

2.2. Label elements

GHS-US labeling

Hazard Pictograms (GHS-US):



GHS08

Signal word (GHS-US): Danger

Hazard Statements: H350 - May cause cancer.

Precautionary Statements: P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P308+P313 - If exposed or concerned: Get medical advice/attention

P405 - Store locked up

P501 - Dispose of container in accordance with local, regional and national regulations

2.3. Other Hazards

No additional information available

2.4. Unknown Acute Toxicity (GHS-US)

No data available

3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable



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3.2. Mixture

Name	Product Identifier (CAS No)	%
Titanium dioxide	13463-67-7	< 0.4
Quartz	14808-60-7	< 1
Oil	64742-52-5	< 0.2
Ceramic	66402-68-4	1 - 3

4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause cancer by inhalation.

4.3. Indication of any immediate medical attention and special treatment required

No additional information available

5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand

Unsuitable extinguishing media: Do not use a heavy water stream

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for fire-fighters

Firefighting instructions: Use spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment. Including respiratory protection.

6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.



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6.3. Methods and material for containment and cleaning up

Methods for cleaning up: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

7.2. Conditions for safe storage including any incompatibilities

Storage conditions: Keep only in the original container in a cool, well ventilated place away from ignition sources. Keep container closed when not in use.
 Incompatible products: Strong bases. Strong acids.
 Incompatible materials: Sources of ignition.

7.3. Specific and use(s)

No additional information available

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.025 R
USA OSHA	Remark (US OSHA)	(3) See Table Z-3.

Titanium dioxide (13463-67-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³
USA ACGIH	Remark (ACGIH)	LRT irr; A3
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.
 Hand protection : Not required.
 Eye protection : Chemical goggles or safety glasses.
 Respiratory protection : Wear appropriate mask.
 Other information : Do not eat, drink or smoke during use.

9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state : Solid
 Color : Colorless
 Odor : characteristic
 Odor threshold : No data available
 pH : No data available
 Relative evaporation rate (butyl acetate=1) : No data available
 Melting point : No data available
 Freezing point : No data available
 Boiling point : No data available



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Flash point : No data available
 Auto-ignition temperature : No data available
 Decomposition temperature : No data available
 Flammability (solid, gas) : No data available
 Vapor pressure : No data available
 Relative vapor density at 20 °C : No data available
 Specific Gravity : ≈ 2.6 (≥ 2.7)
 Solubility : insoluble
 Log Pow : No data available
 Log Kow : No data available
 Viscosity, kinematic : No data available
 Viscosity, dynamic : No data available
 Explosive properties : No data available
 Oxidizing properties : No data available
 Explosive limits : No data available

9.2 Other information

VOC content : ≈ 0g/l

10: STABILITY AND REACTIVITY

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established

10.3. Possibility of hazardous reactions

Not established

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological effects

Acute toxicity : Not classified

Titanium dioxide (13463-67-7)	
LD50 oral rat	> 10000 mg/kg (Rat; OECD 425: Acute Oral Toxicity: Up-and-Down Procedure; Experimental value; > 5000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	> 6.8 mg/l/4h (Rat; Experimental value)

Skin corrosion/irritation : Not classified
 Serious eye damage/irritation : Not classified
 Respiratory or skin sensitization : Not classified
 Germ cell mutagenicity : Not classified
 Carcinogenicity : May cause cancer.



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Quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans

Titanium dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause cancer by inhalation.

12: ECOLOGICAL INFORMATION

12.1. Toxicity

Titanium dioxide (13463-67-7)	
LC50 fish 1	> 1000 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	< 1000 mg/l (432 h; Daphnia magna; Static system)
LC50 fish 2	> 1 g/l (96 h; Leuciscus idus)
EC50 Daphnia 2	< 500 mg/l (720 h; Daphnia magna; Static system)
Threshold limit algae 1	61 mg/l (72 h; Pseudokirchneriella subcapitata)

12.2. Persistence and degradability

Granules	
Persistence and degradability	Not established

Quartz (14808-60-7)	
Persistence and degradability	Biodegradability: not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Titanium dioxide (13463-67-7)	
Persistence and degradability	Biodegradability: not applicable. Low potential for mobility in soil. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

12.3. Bioaccumulative potential

Granules	
Bioaccumulative potential	Not established.

Quartz (14808-60-7)	
Log Pow	Not applicable
Bioaccumulative potential	No bioaccumulation data available. Not established.



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Titanium dioxide (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative. Not established.

13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.
Ecology – waste materials: Not regulated

14: TRANSPORTATION INFORMATION

In accordance with DOT
Not regulated for transport

Additional information

Other information: No supplementary information available

ADR

Transport document description

Transport by sea

No additional information available

Air transport

No additional information available

15: REGULATORY INFORMATION

15.1. US Federal regulations

Granules
Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

Canada

No additional information available

EU-Regulations

No additional information available

Classification according to (EC No 1272/2008 [CLP]

Classification accorsing to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National Regulations

No additional information available

15.3. State Regulations



WARNING: This product can expose you to chemicals which include respirable crystalline silica, carbon black and titanium dioxide which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov



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Quartz 14808-60-7
U.S. – New Jersey – Right to Know Hazardous Substance List

Titanium Dioxide (13463-67-7)
U.S. – New Jersey – Right to Know Hazardous Substance List

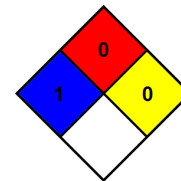
16: OTHER

Issue Date: 05/06/2015
Revision Date: 09/07/18
Other information: None

Full text of H-phrases: see section 16:

Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
H350	May cause cancer
H351	Suspected of causing cancer

NFPA health hazard: 1 – Exposure could cause irritation but only minor residual injury even if no treatment is given.
 NFPA fire hazard: 0 – Materials that will not burn
 NFPA reactivity: 0 – Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating
 Health: 1 Slight Hazard – Irritation or minor reversible injury possible
 Flammability: 0 Minimal Hazard
 Physical: 0 Minimal Hazard
 Personal Protection: A

SDS US (GHS HazCom 2012) - Custom

This SDS contains all the information required by ANSI Z400.1 standard (United States), by regulation 29 CFR Part 1910-1200 of the Hazard Communication Standard of OSHA and is in accordance with DORS/88-66 of WHMIS (Canada).

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