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SAFETY DATA SHEET

1: IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME: RAM TOUGH 250, RAM TOUGH 250 OM, RAM TOUGH 215LT

MANUFACTURER'S NAME: Barrett Company, Inc.
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P.O. Box 421
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CHEMTREC EMERGENCY PHONE: 800- 424-9300
INFORMATION PHONE: 908-647-0100
DATE PREPARED: 01/07/2015

Recommended Use: A component part of commercial roofing and waterproofing systems

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

2: HAZARDS IDENTIFICATION

Physical Hazards: Not Classified
Health Hazards: Not Classified
Environmental Hazards: Not Classified
OSHA defined hazards: Not Classified
No hazards resulting from the material supplied.

Label elements

Hazard symbol None
Signal word Not applicable
Hazard statement Not applicable
Prevention Not applicable
Response Not applicable
Storage Not applicable
Disposal Not applicable

Hazard(s) not otherwise classified (HNOC) None known.
Supplemental information None

3: COMPOSITION AND INFORMATION ON INGREDIENTS

Mixtures

Chemical Name	Common name and synonyms	CAS Number	% Vol
Asphalt		8052-42-4	40 - 70
Distillates (Petroleum) Hydrotreated Heavy Napthenic		64741-52-5	0 - 25
Other components below reportable levels			20 - 60

4: FIRST AID MEASURES

Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention, if needed. Call a physician if symptoms develop or persist.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly wash (or discard) clothing and shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Get medical attention if irritation develops and persists.

Ingestion: Rinse mouth. Do not induce vomiting. Do not use mouth-to-mouth method if victim ingested substance. Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms/effects, acute and delayed: Not available.

Indication of immediate medical attention and special treatment needed: In case of ingestion, the decision of whether or not to induce vomiting should be made by the attending physician. Certain pre-existing conditions may make workers particularly susceptible to the effects of this chemical: asthma, allergies, impaired pulmonary function.

General information: If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Discard any shoes or clothing items that cannot be decontaminated.

5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water fog. Dry chemical powder. Carbon dioxide (CO₂). Addition of water or foam to the fire may cause frothing.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical: Fire may produce irritating, corrosive and/or toxic gasses. Development of hazardous combustion gasses or vapors possible in the event of a fire. The following may develop: Acrolein.

Special protective equipment and precautions for firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear full protective clothing including self-contained breathing apparatus. Structural fire fighters protective clothing will only provide limited protection.

Fire-fighting equipment/instructions: In case of fire and/or explosion do not breathe fumes. Fire fighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. In the event of fire, cool tanks with water spray. By fire, toxic gasses may be formed (Cox, NO_x). Keep run-off water out of sewers and water sources. Dike for water control.

Specific methods: In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Ventilate closed spaces before entering them. Do not touch or walk through spilled material.

Methods and materials for containment and cleaning up: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Dike far ahead of spill for later disposal. Following product recovery, flush area with water.

7: HANDLING AND STORAGE

Precautions for safe handling: The product is non-combustible. If heated, irritating vapors may be formed. Do not use in areas without adequate ventilation. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities: Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a well-ventilated place. Keep the container tightly closed and dry. Store in a closed container away from incompatible materials. Keep out of the reach of children.

8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure limits**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	PEL	5mg/m3	Mist.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
ASPHALT (CAS 8052-42-4)	TWA	0.5mg/m3	Inhalable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
ASPHALT (CAS 8052-42-4)	Ceiling	5mg/m3	Fume.
DISTILLATES (PETROLEUM),	STEL	10mg/m3	Mist.
HYDROTREATED HEAVY	TWA	5 mg/m3	Mist.
NAPHTHENIC (CAS 64742-52-5)			

Biological limit values: No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls: Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Individual Protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses; chemical goggles (if splashing is possible). Wear chemical goggles; face shield (if handling molten material).
Hand protection	Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.
Other	Wear suitable protective clothing and eye/face protection. Use an impervious apron is recommended.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Thermal hazards	During product use, there is a risk of thermal burns.

General hygiene considerations When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practices.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid.
Physical State	Solid.
Form	Solid.
Color	Black. Dark brown.
Odor	Product is a black, semi-solid with a burnt tar odor.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	150 -250°F (65.56 -121.11°C) ASTM D36 Softening Point
Initial boiling point and boiling range	>800°F (>426.67°C)
Flash point	>400°F (>204.4°C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exposure limits	
Flammability limit – lower (%)	Not available.
Flammability limit – upper (%)	Not available.
Explosive limit – lower (%)	Not available.

Explosive limit – upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	>700°F (>371.11°C)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	Not available.
Percent volatile	0%
Specific gravity	1 – 1.9

10: STABILITY AND REACTIVITY

Reactivity	Not available.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Strong oxidizing agents.
Incompatible materials	Incompatible with oxidizing agents.
Hazardous decomposition products	Upon decomposition, product emits acrid dense smoke with carbon dioxide, carbon monoxide, trace oxides of nitrogen and sulfur.

11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion: May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Inhalation: May cause irritation to the respiratory system.

Skin contact: Irritating to skin.

Eye contact: Causes eye irritation. Molten material will produce thermal burns.

Symptoms related to the physical, chemical and toxicological characteristics: Not available.

Information on toxicological effects

Acute toxicity: Not available.

Skin corrosion/irritation: Defats the skin. Causes irritation.

Serious eye damage/eye irritation: Irritating to eyes.

Respiratory or skin sensitization

Respiratory sensitization: Not available.

Skin sensitization: Irritating to skin.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not Listed

Reproductive toxicity: Contains no ingredient listed as toxic to reproduction.

Specific target organ toxicity – single exposure: Not available.

Specific target organ toxicity – repeated exposure: Not available.

Aspiration hazard: Not available.

Chronic effects: Prolonged inhalation may be harmful. May cause eczema-like skin disorders (dermatitis).

12: ECOLOGICAL INFORMATION

Ecotoxicity: This product has no known eco-toxicological effects. Not expected to be harmful to aquatic organisms.

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Other adverse effects: Not available.

13: DISPOSAL CONSIDERATIONS

Disposal instructions: Dispose of contents/container in accordance with local/regional/international regulations. When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

Hazardous waste code: Not applicable.

Waste from residues/unused products: Dispose of in accordance with local regulations.

Contaminated packaging: Offer rinsed packaging material to local recycling facilities.

14: TRANSPORT INFORMATION

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

Further Information: If the product is shipped at ambient temperature, not regulated for transport by ground, air or vessel. If shipped above 212 deg F: "UN3257, Elevated Temperature Liquid, n.o.s. (Asphalt mixture), 9, PG III"

15: REGULATORY INFORMATION

US federal regulations: All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard – No

Delayed – No

Fire Hazard – No

Pressure Hazard – No

Reactivity Hazard - No

SARA 302 extremely hazardous substance

Not Listed.

SARA 311/312 hazardous chemical

No

Hazardous Chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US State regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

US. Massachusetts RTK – Substance List	Not regulated.
US. New Jersey Worker and Community Right-to-Know Act	Not regulated.
US. Pennsylvania RTK – Hazardous Substances	Not regulated.
US. Rhode Island RTK	Not regulated.
US. California Proposition 65	Not Listed.

International inventories:

Country(s) or region:	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16: OTHER INFORMATION

Date Prepared: 01/07/2015

References:

- ACGIH
- EPA: AQUIRE Database
- NLM: Hazardous Substances Database
- US. IARC Monographs on Occupational Exposures to Chemical Agents
- IARC Monographs. Overall Evaluation of Carcinogenicity
- National Toxicology Program (NTP) Report on carcinogens
- ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices.

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