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SAFETY DATA SHEET

1. IDENTIFICATION AND EMERGENCY INFORMATION

Product Names: Ram Drain 1241RS and 2451RS (Root Stop)

Manufacturer's Name: BARRETT COMPANY
33 STONEHOUSE ROAD
MILLINGTON, NJ 079746

CHEMTREC EMERGENCY PHONE: 800-424-9300
INFORMATION PHONE: 908-647-0100
DATE PREPARED: August 1, 2016

2. HAZARDS IDENTIFICATION

Physical State: Solid.

Emergency Overview: **Warning!** When the product is sawn or torn, generated dust can produce irritations of the respiratory tracts and eyes. Avoid breathing dust. Use an approved NIOSH dust mask. Wear gloves when handling the fabric or wash hands after handling the material.

Routes of Entry: (dust!) Eye contact. Inhalation.

Potential Acute Health Effects:
Eyes: The dust can be irritating to eyes.
Skin: Irritating to skin if sensitive skin condition.
Inhalation: The dust can irritate respiratory tracts.
Ingestion: Will not occur.

Potential Chronic Health Effects:
Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
Mutagenic Effects: Not available.
Teratogenic Effects: Not available.

Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure to the dust can aggravate respiratory medical condition or sensitive skin condition. See toxicological Information (Section 11)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Canada/United States:

<u>Name</u>	<u>CAS Number</u>	<u>% by weight</u>
Copper Hydroxide	20427-59-2	2.0 – 9.0

This material is classified hazardous under OSHA regulations in the United States and the WHMIS Controlled Product Regulation in Canada. See Chapters 8, 11 and 14 for details.

4. FIRST AID MEASURES

Eye Contact: If eye irritation develops after exposure to the dust, immediately flush eyes with plenty of water. Get medical attention immediately.

Skin Contact: If irritation develops after handling, seek medical attention.

Inhalation: If respiratory problems develop after exposure to the dust, move the person to fresh air. Get medical attention.

Ingestion: Although highly improbable, if the material is ingested do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms appear.

Notes to Physician: No specific antidote. The main ingredient of the fabric treatment is copper hydroxide which is corrosive in its initial form.

5: FIREFIGHTING MEASURES

Flammability of the product. May be combustible at high temperature.

Auto-ignition temperature. The lowest known value is >343.33°C (650°F) (Polypropylene Resin). Closed cup.

Flash Point: 365°C (689°F). (Pensky-Martens)

Products of Combustion: These products are carbon oxides. Some metallic oxides.

Fire hazards in presence of various substances: Slightly flammable to flammable in presence of open flames, sparks and static discharge. Use an extinguishing agent suitable for surrounding fires.

Firefighting media and instructions: Use an extinguishing agent suitable for surrounding fires.

Special protective equipment for fire-fighters: Fire fighters should wear self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode when exposed to smoke and fume emanating from burning material.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Not applicable.

Environmental Precautions: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Methods for Cleanup: Not applicable.

7: SAFE STORAGE AND HANDLING

Handling: Avoid contact with eyes and skin. Avoid breathing dust. Wash hands thoroughly after handling.

Storage: Avoid producing dust when handling, sawing or tearing the fabric. Avoid all possible sources of ignition (spark or flame).

8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Good general ventilation should be sufficient to control dust levels.

Personal Protection:

Eyes: Safety glasses with side shields, when the material is dusty.

Respiratory: Use an approved NIOSH dust mask if dust is being generated. (Sawn or torn)

Hands: Use glove for handling.

Skin/Body: Not applicable.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.

Color: Black and white/grey.

Boiling/Condensation Point: Decomposition temperature: 288°C (550.4°F)

Melting/Freezing Point: 140 to 166°C (284 to 330.8°F) based on data for: Polypropylene Resin.

Specific Gravity: 1.2 (Water = 1)

Solubility: Insoluble in cold water, hot water. Solubilization of copper hydroxide may occur in acidic solution of pH < 6.

10: STABILITY AND REACTIVITY

Stability and Reactivity: The product is stable.

Incompatibility with Various: Reactive with oxidizing agents.

Hazardous Polymerization: Will not occur.

11: TOXICOLOGICAL INFORMATION

Toxicity Data:

<u>Ingredient Name</u>	<u>Test Result</u>	<u>Route</u>	<u>Species</u>
Copper Hydroxide	LD50 >3160 mg/kg	Dermal	Rabbit

Acute Effects:

Eyes: Irritating to eyes.

Skin: Irritating to skin.

Inhalation: Irritating to respiratory system.

Ingestion: No known significant effects or critical hazards.

Potential Chronic Health Effects:

Carcinogenic Effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Mutagenic Effects: Not available.

Teratogenic Effects: Not available.

12: ECOLOGICAL INFORMATION

Products of Degradation: These products are carbon oxides and water. Some metallic oxides.

13: DISPOSAL CONSIDERATIONS

Waste Disposal: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Consult your local or regional authorities.

14: TRANSPORTATION INFORMATION

Classification DOT/ IMDG/IATA Label – Not regulated.

15: REGULATORY INFORMATION

United States

HCS Classification: Irritating material

U.S. Federal Regulations:

TSCA: All components listed.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found

SARA 302/304/311/312 Hazardous Chemicals: Copper hydroxide.

SARA 311/312 MSDS distribution – chemical inventory – hazard identification: Copper hydroxide: Immediate (Acute) Health Hazard.

Clean Water Act (CWA) 307: Copper Hydroxide.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 Accidental Release Prevention: No products were found.

Clean Air Act (CAA) 112 Regulated Flammable Substances: No products were found.

Clean Air Act (CAA) 112 Regulated Toxic Substances: No products were found.

SARA 313 Product name CAS Number Concentration

Form R – Reporting: Copper Hydroxide 20427-59-2 2.0 – 9.0 requirements

Supplier Notification: Copper Hydroxide 20427-59-2 2.0 – 9.0

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State Regulations:
 Pennsylvania RTK: Copper Hydroxide: (environmental hazards, generic environmental hazard)
 New Jersey: Copper Hydroxide
 Canada
 WHMIS (Canada): Class D-2B: Material causing other toxic effects (TOXIC).
 DSL: All components listed.

16: OTHER INFORMATION

Label Requirements:
 Hazardous Material:
 Information System (U.S.A.)
 National Fire Protection:
 Association (U.S.A.)



17: DISCLAIMER

Date Prepared: August 1, 2016

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