



Between the World  
and The Weather  
Since 1928

# Safety Data Sheet

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## 1: IDENTIFICATION AND EMERGENCY INFORMATION

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**PRODUCT NAME:** RB60, RB80

**Manufacturer's Name:** Barrett Company, Inc.  
33 Stone House Road  
Millington, New Jersey 07946

**CHEMTREC EMERGENCY PHONE:** 800-424-9300  
**INFORMATION PHONE:** 800-647-0100  
**DATE PREPARED:** 03/06/2015

**Recommended Use:** Sold for specific use as a heavy duty root barrier in vegetated (green) systems.

**Restrictions on Use:** Product should only be used by a Barrett Approved Prorooft Local Contractor in accordance with Barrett specifications and recommendations.

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## 2: HAZARDS IDENTIFICATION

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**Classification of the substance or mixture:** This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

### Warning:

**Form:** Sheets of various sizes

**Color:** Opaque

**OSHA Hazards:** Combustible dust

**Physical state:** Solid

**Odor:** Mild to no odor

**Classification:** Combustible dust

### Labeling:

**Signal Word:** Warning

**Hazard Statements:** May form combustible dust concentrations in air. While this product may not be a combustible dust as sold, further processing or handling may form combustible dust concentration in air.

### Potential Health Effects:

**Physical Hazards:** Sheets may cause a slip hazard on hard surfaces or when wet.

**Inhalation:** Repeated exposure to dust from this material may cause respiratory irritation. Fumes generated during thermal processing may cause irritation of the upper respiratory tract.

**Skin:** Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic response. If this material is heated, thermal burns may result from contact. Thermal burns may include pain or feeling of heat, discolorations, swelling, and blistering.

**Eyes:** Contact with the eyes may cause irritation due to the abrasive action.

Not expected to cause prolonged or significant eye irritation.

Thermal burns may result if heated material contacts eye.

**Ingestion:** Ingestion of this product is not a likely route of exposure.

### Carcinogenicity:

#### IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### ACGIH

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

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**3: COMPOSITION AND INFORMATION ON INGREDIENTS**

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Component	CAS-No.	Weight %
Polyethylene Hexene Copolymer	25213-02-9	99 - 100

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**4: FIRST AID MEASURES**

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**If inhaled:** Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.

**In case of skin contact:** If the molten material gets on skin, quickly cool in water. Seek immediate medical attention. Do not try to peel the solidified material from the skin or use solvents or thinners to dissolve it.

**In case of eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**If swallowed:** Do not induce vomiting without medical advice.

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**5: FIRE FIGHTING MEASURES**

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**Flash point:** No data available

**Autoignition temperature:** No data available

**Suitable extinguishing media:** Water. Water mist. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Foam. If possible, water should be applied as a spray from a fogging nozzle since this is a surface burning material. The application of high velocity water will spread the burning surface layer. Avoid the use of straight streams that may create a dust cloud and the risk of a dust explosion. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Specific hazards during fire-fighting:** Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on floors and ledges.

**Special protective equipment for fire-fighters:** Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** This material will burn although it is not easily ignited.

**Fire and explosion protection:** Treat as a solid that can burn. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Hazardous decomposition products:** Normal combustion forms carbon dioxide, water vapor and may produce carbon monoxide, other hydrocarbons and hydrocarbon oxidation products (ketones, aldehydes, organic acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.

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**6: ACCIDENTAL RELEASE MEASURES**

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**Personal precautions:** Avoid breathing dust. Avoid dust formation.

**Environmental precautions:** Do not contaminate surface water with dust. Prevent product dust from entering drains.

**Methods for cleaning up:** Clean up promptly by sweeping or vacuum.

**Additional advice:** Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

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**7: HANDLING AND STORAGE**

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### Handling

**Advice on safe handling:**

Use good housekeeping for safe handling of the product. Keep out of water sources and sewers.

Dust powders may create a slipping hazard.

Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. At elevated temperatures (>350°F, >177°C), polyethylene can release vapors and gases, which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. These substances may include acetaldehyde, acetone, acetic acid, formic acid, formaldehyde and acrolein. Based on animal data and limited epidemiological evidence, formaldehyde has been listed as a carcinogen. Following all recommendations within this SDS should minimize exposure to thermal processing emissions.

**Advice on protection against fire and explosion:** Treat as a solid that can burn. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Storage:** Requirements for storage areas and containers  
Keep in a dry place. Keep in a well-ventilated place.

**Advice on common storage:** Do not store together with oxidizing and self-igniting products.

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## 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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### Ingredients with workplace control parameters

US Ingredients	Basis	Value	Control parameters	Note
Nuisance Dust	OSHA Z-3	TWA	15 mg/m <sup>3</sup>	Total dust
OSHA Z-3	OSHA Z-3	TWA	5 mg/m <sup>3</sup>	(respirable dust)

Control as Particulate Not Otherwise Classified (PNOC). The ACGIH Guideline\* for respirable dust is 3.0 mg/m<sup>3</sup> and 10.0 mg/m<sup>3</sup> for total dust. The OSHA PEL for respirable dust is 5.0 mg/m<sup>3</sup> and 15.0 mg/m<sup>3</sup> for total dust.

\* This value is for inhalable (total) particulate matter containing no asbestos and < 1.0% crystalline silica.

### Engineering measures

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

### Personal protective equipment

**Respiratory protection:** No respiratory protection is normally required. If heated material generates vapor or fumes that are not adequately controlled by ventilation, wear an appropriate respirator. Use the following elements for air-purifying respirators: Organic Vapor and Formaldehyde. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection. Dust safety masks are recommended when the dust concentration is excessive.

#### Eye protection:

Use of safety glasses with side shields for solid handling is good industrial practice. If this material is heated, wear chemical goggles or safety glasses with side shields or a face shield. If there is potential for dust, use chemical goggles.

**Skin and body protection:** At ambient temperatures use of clean and protective clothing is good industrial practice. If the material is heated or molten, wear thermally insulated, heat-resistant gloves that are able to withstand the temperature of the molten product. If this material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not adequate.

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## 9: PHYSICAL AND CHEMICAL PROPERTIES

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### Information on basic physical and chemical properties

#### Appearance

<b>Form:</b>	Sheets of various sizes
<b>Physical state:</b>	Solid
<b>Color:</b>	Opaque
<b>Odor:</b>	Mild to no odor
<b>Odor Threshold:</b>	No data available

**Safety data:**

<b>Flash point:</b>	No data available
<b>Lower explosion limit:</b>	Not applicable
<b>Upper explosion limit:</b>	Not applicable
<b>Autoignition temperature:</b>	No data available
<b>Thermal decomposition:</b>	Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.
<b>pH:</b>	Not applicable
<b>Melting point/range:</b>	90 - 140 °C (194 - 284 °F)
<b>Freezing point:</b>	Not applicable
<b>Initial boiling point and boiling range:</b>	Not applicable
<b>Vapor pressure:</b>	Not applicable
<b>Relative density:</b>	Not applicable
<b>Density:</b>	0.91 - 0.97 g/cm <sup>3</sup>
<b>Water solubility:</b>	Negligible
<b>Partition coefficient: n-octanol/water:</b>	No data available
<b>Solubility in other solvents:</b>	No data available
<b>Viscosity, dynamic:</b>	Not applicable
<b>Viscosity, kinematic:</b>	Not applicable
<b>Relative vapor density:</b>	Not applicable
<b>Evaporation rate:</b>	Not applicable

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**10: STABILITY AND REACTIVITY**

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**Reactivity:** This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Chemical stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Possibility of hazardous reactions:**

**Conditions to avoid:** Avoid prolonged storage at elevated temperature.

**Materials to avoid:** Avoid contact with strong oxidizing agents.

**Thermal decomposition:** Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.

**Hazardous decomposition products:** Normal combustion forms carbon dioxide, water vapor and may produce carbon monoxide, other hydrocarbons and hydrocarbon oxidation products (ketones, aldehydes, organic acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.

**Other data:** No decomposition if stored and applied as directed.

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**11: TOXICOLOGICAL INFORMATION**

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<b>Marlex® K307 Polyethylene</b>	
<b>Acute oral toxicity:</b>	Presumed Not Toxic
<b>Marlex® K307 Polyethylene</b>	
<b>Acute inhalation toxicity:</b>	Presumed Not Toxic
<b>Marlex® K307 Polyethylene</b>	
<b>Acute dermal toxicity:</b>	Presumed Not Toxic
<b>Marlex® K307 Polyethylene</b>	
<b>Skin irritation:</b>	No skin irritation
<b>Marlex® K307 Polyethylene</b>	
<b>Eye irritation:</b>	No eye irritation
<b>Marlex® K307 Polyethylene</b>	
<b>Sensitization:</b>	Did not cause sensitization on laboratory animals.

**Marlex® K307 Polyethylene****Further information:**

This product contains POLYMERIZED OLEFINS. During thermal processing (>350°F, >177°C) polyolefins can release vapors and gases (aldehydes, ketones and organic acids) which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. Generally these irritant effects are all transitory. However, prolonged exposure to irritating off-gases can lead to pulmonary edema. Formaldehyde (an aldehyde) has been classified as a carcinogen based on animal data and limited epidemiological evidence.

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**12: ECOLOGICAL INFORMATION**

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**Ecotoxicity effects**

Elimination information (persistence and degradability)

Bioaccumulation: Does not bioaccumulate.

Mobility: The product is insoluble and floats on water.

Biodegradability: This material is not expected to be readily biodegradable.

**Ecotoxicology Assessment**

Additional ecological information: This material is not expected to be harmful to aquatic organisms. Fish or birds may eat particles which may obstruct their digestive tracts.

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**13: DISPOSAL CONSIDERATIONS**

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The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

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**14: TRANSPORT INFORMATION**

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**The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).**

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

**US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

## National legislation

<b>SARA 311/312 Hazards:</b>	No SARA Hazards
<b>CERCLA Reportable Quantity:</b>	This material does not contain any components with a CERCLA RQ.
<b>SARA 302 Reportable Quantity:</b>	This material does not contain any components with a SARA 302 RQ.
<b>SARA 302 Threshold Planning Quantity:</b>	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
<b>SARA 304 Reportable Quantity:</b>	This material does not contain any components with a section 304 EHS RQ.
<b>SARA 313 Ingredients:</b>	SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

**Ozone-Depletion Potential:** This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

**US State Regulations**

**Pennsylvania Right To Know:** No components are subject to the Pennsylvania Right to Know Act.

**New Jersey Right To Know:** No components are subject to the New Jersey Right to Know Act.

**California Prop. 65 Ingredients:** This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**Notification Status**

**Europe REACH:** On the inventory, or in compliance with the inventory

**United States of America TSCA:** On TSCA Inventory

**Canada DSL:** All components of this product are on the Canadian DSL

**Australia AICS:** On the inventory, or in compliance with the inventory.

**New Zealand NZIoC:** On the inventory, or in compliance with the inventory

**Japan ENCS:** On the inventory, or in compliance with the inventory

**Korea KECl:** On the inventory, or in compliance with the inventory

**Philippines PICCS:** Not in compliance with the inventory

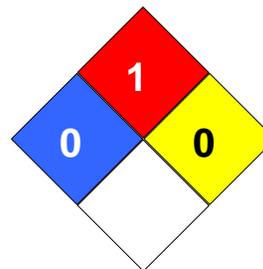
**China IECSC:** On the inventory, or in compliance with the inventory

**Europe REACH:** On the inventory, or in compliance with the inventory

**NFPA Classification:** Health Hazard: 0

Fire Hazard: 1

Reactivity Hazard: 0



## Further information

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

### 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.