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Safety Data Sheet

1: IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME: ST150, ST300

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

CHEMTREC EMERGENCY PHONE: 800-424-9300
INFORMATION PHONE: 800-647-0100
DATE PREPARED: Revised May 2015

Recommended Use: A component part of commercial asphalt Built-Up Roof Membrane

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

2: HAZARDS IDENTIFICATION

Emergency Overview:

Under United States Regulations (29 CFR 1900.1200 – OSHA Hazard Communication Standard) the products listed above are exempt as articles under normal conditions of use. In Canada, these products are considered manufactured articles under the Workplace Hazardous Materials Information System (WHMIS) and are exempt. Under normal conditions of use the products listed in this SDS are not expected to pose a physical hazard or health risk to humans. These products do not contain any form of asbestos materials. The component exposure limits and other information in this document are provided for abnormal or emergency circumstances such as heating (above 250°F), burning, cutting, sanding and/or grinding when there is a potential for exposure to these components.

GHS-US Classification

- H303 – May be harmful if swallowed
- H315 – Causes skin irritation
- H320 – Causes eye irritation
- H335/336 – May cause respiratory irritation

GHS-US Labeling



Health Hazard

Potential Health Effects

Inhalation: Inhalation of vapors, fumes or mists of the products in abnormal or emergency circumstances may be irritating to the respiratory system. See Section 8 for exposure controls.

Skin Contact: Contact with hot product may cause thermal burns. Prolonged or repeated contact may cause dryness and irritation of the skin. Long-term skin exposure to asphalt can increase sensitivity to the sun and may cause discoloration.

Eye Contact: Fumes created when hot liquid asphalt is used to apply, repair or maintain substrates these products may cause severe irritation, redness, or blurred vision. Contact with hot product in abnormal or emergency circumstances may cause severe thermal burns and severe eye damage.

Ingestion: These products may be harmful or fatal if swallowed. They may cause dizziness, loss of coordination, headache, nausea and vomiting. Small amounts of these products, if aspirated into the lungs, may cause mild to severe pulmonary injury.

Medical Conditions Aggravated by Exposure: Chronic respiratory or skin conditions may temporarily worsen from exposure to emissions from these products in abnormal or emergency conditions.

3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number	Component	Percent by Weight
64742-93-4	Oxidized Asphalt	10-55
N/A	SEBS Polymers	1-15
8052-42-4	Asphalt Flux	30-75

*These products contain trace amounts of polynuclear aromatic compounds, some of which are listed as hazardous under various Federal, State, and international laws and regulations.

Note; See Section 8 of SDS for exposure limit data for these ingredients.

Appearance and Odor: Brown/Black viscous liquid (when heated), with an asphalt odor which is released upon heating or burning of product.

Hydrogen sulfide (H²S), an extremely toxic gas, may be emitted from heated asphalt and may accumulate in storage tanks and other confined spaces. At low concentrations, H²S is irritating to the eyes, nose and throat, and at high concentrations (>500ppm) can cause rapid unconsciousness and death. The odor of H²S cannot be used as an indicator of exposure, because the gas causes rapid olfactory fatigue, which deadens the sense of smell. Use this product only under well-ventilated working conditions.

4: FIRST AID MEASURES

Inhalation: Move person to fresh air. Administer cardiac or pulmonary resuscitation (CPR) if a pulse is not detectable or if unable to breathe. Provide oxygen if breathing is difficult. Obtain immediate medical assistance.

Skin Contact: If hot material strikes skin, immediately drench or immerse the area in water to assist cooling. If available, apply iced water or ice packs to the burned area. DO NOT try to remove asphalt from burn after it has cooled. Seek medical attention. Medical personnel can soften and remove cooled asphalt with petroleum jelly or mineral oil. For contact with cold material, clean exposed skin with waterless hand cleaner, then wash with mild soap and water. If irritation persists, seek medical attention.

Eye Contact: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

Ingestion: DO NOT induce vomiting. Prevent aspiration of material into lungs. Seek immediate medical attention.

Chronic Effects in Abnormal or Emergency Circumstances: Occupational exposures to asphalt, oxidized asphalt, silica and formaldehyde, which may occur from these products during abnormal conditions of use or emergencies, have been found to be probable or known human carcinogens, and may cause serious irreversible lung disease and other non-cancerous effects. See Section 11 of this SDS

Notes to Physician: This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

5:**FIRE FIGHTING MEASURES**

Flash Point:	min 500°F	Flash Point Method:	C.O.C.
Upper Flammability Limit:	Not determined	Lower Flammability Limit:	Not determined
Rate of Burning:	Not available	Flammability Classification:	Not determined
Auto Ignition Temperature:	>650°F (343°C)		

Extinguishing Media: Use dry chemical, foam and carbon dioxide. Use water to cool fire-exposed containers and to protect personnel.

Unusual Fire & Explosion Hazards: Treat as hydrocarbon type fire. Hot asphalt may ignite flammable materials on contact. DO NOT direct water into a container or directly onto hot asphalt, a vessel or a storage tank containing asphalt as it may cause violent eruptions and spreading of hot asphalt.

Fire-Fighting Instructions: Use self-contained breathing apparatus (SCBA) and full bunker turnout gear in a sustained fire. Wear protective clothing ensemble as defined in NFPA 1500 (1997, or as updated).

Unusual Fire or Explosion Hazards: Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to a source of ignition and flash back. Vapors are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Liquid is lighter than water. May be transported hot.

Hazardous Combustion Products: Primary combustion products are carbon monoxide, carbon dioxide and water. Combustion products may include sulfur oxides and hydrogen sulfide. Other undetermined compounds could be released in small quantities.

6:**ACCIDENTAL RELEASE MEASURES**

Containment Procedures and Clean-Up Procedures

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other noncombustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. For large spills, dike far ahead of liquid spill for later disposal. Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Wastes are not hazardous as defined by the Resource Conservation and recovery Act (RCRA; 40CFR261). Comply with state and local regulations for disposal of these products. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the Environmental Protection Agency (EPA).

7:**HANDLING AND STORAGE**

Do not get these materials in your eyes or on your skin and minimize exposure to fumes from heated material. Wash exposed areas thoroughly after handling these products. Keep these products from sparks or open flame. Use these products with adequate ventilation.

Hydrogen sulfide may be emitted from heated asphalt. Prolonged breathing (greater than 1 hour) of concentrations of hydrogen sulfide around 50 ppm can produce eye and respiratory tract (mouth, nose and throat) irritation and at high concentrations (around 300 ppm) is considered immediately dangerous to life and health.

Since the sense of smell becomes rapidly insensitive to hydrogen sulfide, its odor cannot be relied upon as an indicator of its concentration. Use ventilation or work upwind from source of fumes or vapors. Use supplied air respirators or self-contained breathing apparatus if the PEL or TLV for hydrogen sulfide (10 ppm, 8hr TWA) is exceeded.

Storage Procedures: Store away from heat and all ignition sources and open flames in accordance with applicable laws and regulations.

Exposure Guidelines:**A: General Product Information**

Follow all applicable exposure limits.

B: Component Exposure Limits

ACGIH, OSHA and NIOSH exposure limit lists have been checked for those components with CAS registry numbers listed in Section 2 of this SDS

Petroleum asphalt (8052-42-4)

ACGIH: 0.5 mg/m³ TLV-TWA, benzene-extractable, inhalable particulate (or equivalent method)

OSHA: Total dust: 15mg/m³ PEL-TWA; respirable fraction: 5 mg/m³ PEL-TWA (related to particulates not otherwise regulated, PNOR)

NIOSH: 5mg/m³ Recommended Exposure Limit (REL), measured as a 15 minute ceiling (fumes)

Ventilation: Provide sufficient local and/or general exhaust ventilation to maintain exposure levels below the PELs or TLVs in abnormal or emergency circumstances.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: If ventilation is not sufficient to control exposures below TLV or PEL, use an appropriate properly fitted NIOSH approved respirator. If irritation occurs or if the PEL or TLV for asphalt fume is exceeded, use any half-facepiece, air purifying respirator equipped with a combination R100 or P100 filter and an organic vapor (OV) cartridge.

Use respiratory protection in accordance with your company's respiratory protection program, local regulations and OSHA regulations under 29 CFR 1910.134.

Skin Protection: A loose fitting, long sleeved cotton shirt and long cotton pants are recommended. Heat insulated, leather or lined neoprene coated gloves should be worn when working with hot asphalt materials.

Eyes/Face Protective Equipment: Wear safety glasses or goggles. Also wear a face shield where splash hazard exists.

Work Practices: Handle with good industrial hygiene and safety practices. These include avoiding any unnecessary exposure and removal of the material from the skin, eyes and clothing. Wash hands and arms frequently, shower after exposure and wash work clothes when soiled.

In case of exposure to or contact with hot asphalt, see Section 4.

These products may be applied, repaired or maintained using hot liquid asphalt and these operations may result in worker exposures to asphalt fumes or emissions via inhalation or dermal absorption. Although there is no evidence that the fumes and emissions that occur in these operations emanate from these products, roofing contractors and workers using hot liquid asphalt in the application, repair or maintenance of these products should adhere to the equipment and work practice recommendations published by NIOSH. See DHHS (NIOSH) Publication No. 2003-107, entitled "Reducing Roofers' Exposure to Asphalt Fumes". The publication is available on NIOSH's website at: <http://www.cdc.gov/niosh/docs/2003-107/pdfs/2003-107.pdf>.

Appearance:	Brown/Black viscous liquid	Odor:	Petroleum
Physical State:	Solid	pH:	Not applicable
Vapor Pressure:	<1	Vapor Density (Air=1):	Not applicable
Boiling Point:	NA	Solubility (H₂O):	Nil
Specific Gravity (Water=1):	1.03-1.06	Freezing Point:	Not determined
Viscosity:	Solid at room Temperature	Percent Volatile:	0%
Melting Point:	185-225°F		

10: STABILITY AND REACTIVITY INFORMATION

Stability: This is a stable material.

Conditions to avoid: Do not allow hot, molten asphalt to contact water as this may cause violent eruptions and spreading of hot asphalt.

Incompatible Materials: These products may react with strong oxidizing agents and water.

Hazardous Decomposition Products: Primary combustion products are carbon monoxide, carbon dioxide and water. Combustion products may include sulfur oxides and hydrogen sulfide.

Hazardous Polymerization: Will not occur.

11: TOXICOLOGICAL INFORMATION

Acute and Chronic Toxicity:

A: General Product Information

Contact with hot product may cause thermal burns. Long-term skin exposure to asphalt can increase sensitivity to the sun and cause discoloration. If ingested, may cause mouth, throat and gastrointestinal tract irritation and upset with possible nausea, vomiting and diarrhea. Small amounts of these products, if aspirated into the lungs, may cause mild to severe injury. See Section 8 for exposure controls.

B: Component Analysis – LD50/LC50

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Asphalt	5000 mg/kg Rat	2000 mg/kg Rabbit	

Component Carcinogenicity

ACGIH, IARC, OSHA and NTP carcinogen lists were checked for those components with CAS registry numbers.

Petroleum asphalt (8052-42-4) ACGIH: A4 – Not Classifiable as a Human Carcinogen (related to Asphalt fumes)

12: ECOLOGICAL INFORMATION

Ecotoxicity: No data available for these products. These products are not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

13: DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions:

A: General Product Information

Material, if discarded, is not a characteristic hazardous waste under RCRA.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for the components of these products.

Disposal Instructions:

Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

14: TRANSPORTATION INFORMATION

US DOT Information (Cold product)

Shipping Name: Not regulated as hazardous material for transportation.

TDG Information

Shipping Name: Not regulated as hazardous material for transportation.

Additional Transportation Regulations:

No additional information available.

15: REGULATORY INFORMATION

US Federal Regulations:**A: General Product Information**

OSHA status: These products are considered articles not subject to 29CFR 1910.1200 (OSHA Hazard Communication Standard).

These products contain trace amounts of polynuclear aromatic compounds, some of which are listed as hazardous under various Federal, State, and international laws and regulations.

B: Component Analysis

These materials contain trace amounts of formaldehyde and polycyclic aromatic compounds (PACs) listed under SARA 313.

SARA 311/312

Acute Health Hazard: Yes

Chronic Health Hazard: Yes

Fire Hazard: Yes

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

SECTION 313 REPORTABLE INGREDIENTS:

Polycyclic Aromatic Compounds (N590) – 100ppm

Benzo(g,h,i)perylene (191-24-2) – 10ppm

State Regulations:**A: General Product Information**

No additional information available.

B: Component Analysis – State

The following components listed in Section 2 of this SDS appear on one or more state hazardous substance lists:

Component	CAS number
Petroleum asphalt	8052-42-4

These products contain trace amounts of polynuclear aromatic compounds, some of which are listed as hazardous under various State laws and regulations

The following statement is provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! These products contain chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

Other Regulations:**A: General Product Information**

All components identified in Section 2 of this SDS are either listed on the US EPA TSCA Inventory, or are exempt from listing.

All components identified in Section 2 of this SDS are either listed on the Canadian DSL, or are exempt from listing.

B: Component Analysis – Inventory

Component	CAS Number	TSCA	DSL	EINECS
Petroleum asphalt	8052-42-4	Yes	Yes	Yes

C: Component Analysis – WHMIS

WHMIS Status: Not Controlled

WHMIS Classification: None

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OTHER INFORMATION

Date Prepared: Revised May, 2015. Replaces the previous version February 2002, reviewed May 2014. With updated regulatory and product information. Read this information carefully.

HMIS and NFPA Hazard Ratings:

Category	HMIS	NFPA
Health	1	1
Flammability	1	1
Reactivity	0	0

NFPA Unusual Hazards: No water

HMIS personal Protection: To be supplied by user depending upon use.

Key/Legend:

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act; DSL = Canadian Domestic Substance List; EINECS = European Inventory of New and Existing Chemical Substances; WHMIS = Workplace Hazardous Materials Information System; CAA = Clean Air Act

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