

SAFETY DATA SHEET

PRODUCT NAME: Expandable Polymeric Beads

EFFECTIVE DATE: 10/1/2016

COMPANY: RAPAC, L.P., Oakland, TN



SECTION 1: IDENTIFICATION

PRODUCT NAME: Expandable Polymeric Beads

OTHER MEANS OF IDENTIFICATION: Expandable Polystyrene Pellets, Polystyrene Resin Bead w/Blowing Agent, Drain Bead Expandable Polymeric Beads, Filler Bead Expandable Polymeric Beads, Loose Fill Expandable Polymeric Beads

RECOMMENDED USE AND RESTRICTIONS: Void fill material

COMPANY INFORMATION:

RAPAC
65 Industrial Park Road
Oakland, Tennessee 38060

WEBSITE: www.rapac.com

TELEPHONE NUMBERS:

Customer Service: (901) 466-7500
Technical Services: (901) 466-7559



EMERGENCY PHONE NUMBER: CHEMTREC: (800) 424-9300

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Flammable solid. Eye irritant: mildly irritating to eyes. Solid, white or colored, rectangular-shaped beads (approx. 0.20"W x 0.18"Tk x 0.31"L). Slight hydrocarbon odor due to presence of pentane gas.

HAZARD STATEMENT: DANGER - Pentane vapor is extremely flammable. Flash fire could result from ignition of concentrated vapor. Highest concentration of vapor and greatest risk of flash fire is present when boxes of this EPS product are first opened. Pentane vapors are heavier than air and tend to collect in pockets or low areas near the floor or ground, but are readily dispersed by moving air.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Wear protective gloves/eye protection/face protection.

In case of fire use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Burning product should be treated as a "Class B" fire.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

HAZARDS NOT CLASSIFIED: None

SECTION 3: COMPOSITION

CHEMICAL NAME	CAS NUMBER	COMPOSITION % (± 1%)	EXPOSURE LIMITS
Polystyrene (C ₈ H ₈) _x	9003-53-6	93-94	None
Pentanes (C ₅ H ₁₂)	78-78-4, 109-66-0	5.5	1000ppm ACGIH TWA* 1000ppm OSHA PEL

IMPURITIES AND ADDITIVES: Non-hazardous components present at 3.0% or less are not listed. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret

* The Exposure Limit is based on an 8-hour, Time Weighted Average (TWA) exposure (in parts per million) according to guidelines published annually by the American Conference of Governmental Industrial Hygienists (ACGIH). <http://www.acgih.org/home.htm>

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SECTION 4: FIRST-AID MEASURES

EYE CONTACT: Eye irritant: mildly irritating to eyes. Flush eyes thoroughly with water for several minutes. Remove any larger particles from the eye as one would any foreign object. Get medical attention if eye irritation persists or particulates are difficult to remove from the eye.

SKIN CONTACT: Essentially non-irritating to the skin. Wash off in flowing water or shower. Get medical attention if skin irritation develops.

INHALATION: Inhalation of concentrated vapors may cause irritation of the nose and throat. Inhalation may also cause dizziness, drowsiness, euphoria, loss of coordination, disorientation, headache, nausea, and vomiting. If inhaled, remove to fresh air. If not breathing, clear person's airway and give artificial respiration. If breathing is difficult, qualified medical personnel may administer oxygen. Get medical attention immediately.

INGESTION: No hazards anticipated from ingestion incidental to normal industrial exposure. If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives. Do not induce vomiting unless directed to do so by medical personnel.

NOTES TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient. Exposure may increase "myocardial irritability". Do not administer sympathomimetic drugs (e.g. Epinephrine) or other heart stimulant.

EMERGENCY PERSONNEL PROTECTION: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Burning product should be treated as a "Class B" fire.

FIRE FIGHTING PROCEDURES: Keep people away. Apply large volume of water for cooling effect, or water fog and/or spray as quenching (cooling) and snuffing agent. Dry chemical or carbon dioxide may effectively be used to snuff fires by applying to the base of the fire in a sweeping motion. Extremely hot surfaces may require the additional cooling effect provided by water, foam, or carbon dioxide.

HAZARDOUS COMBUSTION PRODUCTS: The presence and/or release of flammable and potentially explosive vapors associated with Pentane gas component poses the greatest fire hazard. Flammable vapors are heavier than air and may travel long distances, ignite, and then flash back. Additional care must be exercised when opening boxes of this material as the flammable vapors will be most concentrated at this point and time. Heating the product will also increase the release of flammable and potentially explosive vapors. Do not expose to intense heat, sparks, flame, static, or other sources of ignition. (The use of steam to heat the product during normal expansion process, however, presents a much-reduced risk of fire or explosion due to the relatively large volume of steam in proportion to that of released pentane gas vapors.)

Electrostatic discharge (static electricity spark) or any other source of heat or flame may ignite accumulated pentane vapors when the LEL (Lower Explosive Limit) of 1.4% (14,000 ppm) is reached or exceeded. A flash fire and/or explosion may result that may ignite other flammable materials including the main polystyrene component of this product. When burning, this product will give off dense black smoke and slightly acidic gases.

"NO SMOKING – NO MATCHES – NO LIGHTERS – NO WELDING" rules should be strictly enforced.

When handling, use non-sparking tools; ground and bond all containers and material transport systems. For more information, see Section 7.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: Firefighters should wear full protective clothing. Combustion vapors of this product may contain toxic compounds. Firefighters should therefore wear positive-pressure self-contained breathing apparatus when exposed to smoke from this product. See Section 10 for more information on products of combustion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

EYE/FACE PROTECTION: Avoid eye contact with particles of this product by using eye protection equipment. Standard safety glasses with side shields may not provide adequate protection from flying particles and/or high concentrations of blowing agent vapors. Chemical type goggles are recommended when there is a potential or risk for such exposure that could cause injury to the eye. Do not wear contact lenses.

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SKIN PROTECTION: No precautions other than clean body-covering clothing should be needed. Small amounts (<1% by weight) of liquid calcium-stearate present on the surface of the un-expanded product may adhere to skin or other surfaces that come in contact with this product. Although there is no known hazard from any such components of this product, workers may wish to wear gloves to avoid the tacky feel of the liquid calcium stearate. Wash exposed skin several times daily with soap and water to remove contaminants.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below exposure guidelines. If respiratory protection is required for high concentrations of blowing agent vapors, the appropriate, approved air-purifying or air supplying respirator (self-contained breathing apparatus) should be used. In dusty atmospheres, use an approved dust mask.

METHOD OF CLEANUP: Take immediate action to guard against exposure to sources of combustion per Sections 2 and 5 above. Take action to prevent further spread and/or leakage of materials. Protect against crushing or any mechanical damage which might create small pieces and fragments that make clean up more difficult. Guard against material entering drains to prevent drain plugging, potential accumulation of combustible blowing agent vapors in drainage systems, and/or further dispersal of spilled material. Uncontaminated product may be swept up and reused or disposed of per approved methods. See Sections 12 and 13 for more information on environmental effects and disposal guidelines.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING: Use spark-proof tools. Maintain good ventilation. Do not wear clothing that is prone to generate static electrical charges such as nylon jackets or Nomex overalls. Never smoke or weld in the vicinity of this product. Keep away from open flame or heat sources.

Boxes of the unexpanded product should be carefully opened and left open for 1-2 hours prior to use to permit venting of excess blowing agent gas vapors. Such procedure will also permit the product to acclimate to the temperature and humidity conditions within the expansion processing area which may improve results obtained during the expansion process.

Augers, blowers, and motors that are certified as non-sparking designs should be used when transferring or conveying this product. **UNGROUNDING AND/OR IMPROPERLY GROUNDED MATERIAL HANDLING SYSTEMS MAY RESULT IN THE BUILD-UP AND SUBSEQUENT SUDDEN INTENSE DISCHARGE OF STATIC-ELECTRICAL SPARKS THAT MAY IGNITE THIS PRODUCT.** Systems used to transfer or convey this product in its as-shipping, unexpanded (raw EPS bead) form as well as partially or fully expanded bead during and/or after the expansion process **MUST BE PROPERLY AND THOROUGHLY GROUNDED** so as to safely and continuously dissipate static electrical charges which are continuously generated during transfer or conveyance of this or any other non-metallic product.

Proper grounding means that all components of the handling and conveying system(s) must be connected together by a **COMMON** ground having good electrical continuity. Any non-conductive (i.e. non-metallic) components of the conveying system must be spirally wrapped with grounding wire which has had its ends bared and cleanly and firmly attached (with good electrical conductivity and continuity) to the other grounded, conductive metal components of the system. If used, flexible plastic duct containing spiral wire re-enforcement must also have the ends of the re-enforcement wire bared and cleanly attached to the grounded metal components of the conveying system. Product shipment trailers and any of their material handling components must be grounded to the conveying system with a common electrical ground when loading or unloading this product. Other grounding precautions and/or procedures may be needed depending upon the design of the material handling system. This is not intended to be a complete source of information on the grounding requirements for the product user's material handling system(s). It is the product user's responsibility to ensure the proper design, installation, and maintenance of a good electrical grounding system and appropriate safety procedures for the transfer and handling of this product.

STORAGE: Keep boxes of unopened stored product away from heat, sparks, flame, and other sources of ignition. Maintain good ventilation in storage areas with particular attention to ventilation at or near floor levels since the pentane gas blowing agent vapors (which are heavier than air) may flow and/or settle near the floor and/or other low places or "pockets" when there is little or no air movement. The shelf-life of this product may be significantly reduced if the unexpanded bead is stored in areas where temperatures exceed 110°F. If this product is stored in non-climate controlled warehouse areas during cold weather, it is recommended that un-opened boxes of this product be placed in an expanding process area that is closer to normal room temperatures, at least 24 hours prior to opening and processing as doing so may improve processing results. This blowing agent component will be present at its highest concentration in unopened containers (bag-lined boxes) of this product. Due to the hazardous nature of the blowing agent vapors, extra precautions must be observed when first opening containers of this product. See Sections 8 and 10 for additional storage relevant information and recommended precautions.

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS: Polystyrene: None Established
Pentane: 1000 ppm ACGIH TLV-TWA; 1000 ppm OSHA PEL

APPROPRIATE ENGINEERING CONTROLS: Open box and bag in well-ventilated area and allow standing open for 1-2 hours prior to use. Avoid breathing the concentrated vapors which are released when the bag is opened. Use Non-Sparking and/or Explosion-Proof equipment to maintain adequate air movement and ventilation that meets occupational exposure limits, prevents accumulation of explosive air-gas mixtures, and avoids significant oxygen displacement.

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Eye Irritant: mildly irritating to eyes. Avoid eye contact with particles of this product by using eye protection equipment. Standard safety glasses with side shields may not provide adequate protection from flying particles and/or high concentrations of blowing agent vapors. Chemical type goggles are recommended when there is a potential or risk for such exposure that could cause injury to the eye. Do not wear contact lenses.

SKIN PROTECTION: No precautions other than clean body-covering clothing should be needed. Small amounts (<1% by weight) of liquid calcium-stearate present on the surface of the un-expanded product may adhere to skin or other surfaces that come in contact with this product. Although there is no known hazard from any such components of this product, workers may wish to wear gloves to avoid the tacky feel of the liquid calcium stearate. Wash exposed skin several times daily with soap and water to remove contaminants.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below exposure guidelines. If respiratory protection is required for high concentrations of blowing agent vapors, the appropriate, approved air-purifying or air supplying respirator (self-contained breathing apparatus) should be used. In dusty atmospheres, use an approved dust mask.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Solid, white or colored, rectangular-shaped beads (approx. 0.20"W x 0.18"Tk x 0.31"L).

ODOR: Slight hydrocarbon odor due to presence of pentane gas.

ODOR THRESHOLD: No test data available

pH: Not applicable

MELTING POINT/FREEZING POINT: Softens and expands at 93.3-101.7°C (200-215°F)

INITIAL BOILING POINT AND BOILING RANGE: Not applicable to primary polystyrene. 82/97°F (28/36°C) for isopentane/n-pentane component.

FLASH POINT: Not applicable to polystyrene. Less than -56.2°F (-49°C) for pentane.

EVAPORATION RATE: Not applicable

FLAMMABILITY: Pentane vapors are flammable

UPPER/LOWER FLAMMABILITY LIMITS: Not applicable to polystyrene. Lower 1.4% and Upper 8.3% for pentane.

VAPOR PRESSURE: Not applicable to polystyrene. 57.90 kPa for pentane at 20°C.

VAPOR DENSITY: Not applicable to polystyrene. 2.5 for pentane.

RELATIVE DENSITY: 31 – 32 lb/cu. ft.

SOLUBILITY: <0.1% in water

PARTITION COEFFICIENT: No data available for this product

AUTO-IGNITION TEMPERATURE: 800°F (427°C) for polystyrene; 588°F (309°C) for normal-pentane; 788°F (420°C) for iso-pentane; and 451°F (233°C) for benzyl butyl phthalate

DECOMPOSITION TEMPERATURE: No test data available

VISCOSITY: Not applicable

VOC CONTENT: 4.5 – 6.5% by weight in properly stored, unexpanded product (isopentane/n-pentane)

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: This material reacts violently with:

AIR___ WATER___ HEAT___ STRONG OXIDIZERS___ OTHERS___ NONE OF THESE__X__

STABILITY/INSTABILITY: Thermally stable at typical use temperatures.

POSSIBILITY OF HAZARDOUS REACTIONS: None likely

CONDITIONS TO AVOID: Static discharge. Open flames and heat sources.

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INCOMPATIBLE MATERIALS: Avoid contact with liquid fuels and organic solvents (e.g. acetone, toluene).

HAZARDOUS DECOMPOSITION PRODUCTS: Does not readily decompose. When heated above 400°F (204.4°C), small amounts of aromatic hydrocarbons such as styrene and toluene may be emitted. When subjected to combustion, toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes, ketones, hydrogen bromide, and styrene may be evolved. The quantity and content of decomposition products depend upon temperature, air supply, and the presence of other materials.

SECTION 11: TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Eye contact, skin contact, and inhalation most likely

SYMPTOMS AND EFFECTS OF EXPOSURE:

EYE CONTACT: Eye Irritant: mildly irritating to eyes. Fragments of resin bead resulting from rough or careless handling could cause abrasive irritation or injury. Concentrations of vapor from pentane gas blowing agent present in freshly opened boxes of EPS resin may cause irritation, experienced as discomfort, with excess tear production and reflexive blinking accompanied by some slight temporary development of eye redness.

SKIN CONTACT: Essentially non-irritating to the skin. Mechanical injuries only.

INHALATION: Concentrations of vapor from pentane gas blowing agent present in freshly opened boxes of EPS may cause irritation of the nose and throat. Inhalation of concentrated vapors may also cause dizziness, drowsiness, euphoria, loss of coordination, disorientation, headache, nausea, and vomiting. In poorly ventilated areas or confined spaces, there may be risk of unconsciousness and asphyxiation. Prolonged or repeated overexposure to concentrated vapors may result in the absorption of potentially harmful amounts of material.

INGESTION: Single dose oral toxicity is believed to be very low. No hazards anticipated from ingestion incidental to normal industrial exposure. If several mouthfuls or more are swallowed, abdominal discomfort, nausea, irritation from intestinal abrasion, and diarrhea may occur.

SYSTEMIC (OTHER TARGET ORGANS): Only repeated exposure to concentrated vapors from the pentane gas blowing agent has been found to be harmful. Various studies have shown a possible association with pentane gas vapor and the following: respiratory tract irritation, central nervous system depression in high concentrations, potential to sensitize heart muscle, and chronic (repeated, long-term) exposure may affect the liver.

TOXICITY:

Pentane: Inhalation, rat: LC50: 364 gm/m³/4H

Oral, rat: LD50: > 2000 mg/kg

Polystyrene: No data available

CARCINOGENICITY:

OSHA: none listed

IARC: Pentane: not listed

Polystyrene: Group 3 (not classifiable as to its carcinogenicity to humans)

NTP: none listed

Product has not been found to be a potential carcinogen by OSHA, International Agency for Research on Cancer, or the National Toxicology Program.

More detailed toxicological and/or exposure limit data, plus information on industry terminology may be obtained by calling the technical services number listed in Section 1 of this SDS or through organizations such as OSHA, ACGIH, or the National Institute for Occupational Safety and Health (NIOSH). <http://www.cdc.gov/niosh/homepage.html>

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No serious environmental effect due to spillage or release of the unexpanded product.

PERSISTANCE AND DEGRADABILITY: Photo degradation and decomposition is expected with exposure to sunlight. No appreciable biodegradation is expected. Blowing agent initially remains in the unexpanded product, diffusing out slowly over a period of time. Blowing agent vapors may become dissolved in water or absorbed by soil particles before releasing to the atmosphere.

Microbiological activity in the soil may transform the blowing agent into other organic compounds that may become beneficial constituents of the soil organic matter.

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BIOACCUMULATIVE POTENTIAL: No bio concentration is expected because of the relatively high molecular weight (MW >1000). Biototoxicity is very low. Fish or other animals ingesting the expanding beads may, however, be harmed by abrasive irritation and/or blockage of the digestive tract.

MOBILITY IN SOIL: Material is expected to remain in the soil. In the aquatic environment, material is expected to float. There is no evidence for significant evolvment or leaching of any components, therefore contamination of groundwater is unlikely.

SECTION 13: DISPOSAL CONSIDERATIONS

All disposal methods must be in compliance with all Federal, State/Provincial, and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. RAPAC HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS PRODUCT. THE INFORMATION HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS MANUFACTURED CONDITION AS DESCRIBED IN SECTION 3 OF THIS SDS.

Disposal methods for uncontaminated or contaminated material may also include burial in approved landfills or burning in approved incinerators in compliance with applicable laws as stated above.

Take precautions and follow good housekeeping practices to avoid unnecessary spillage, dispersal, and/or scattering of this product that makes cleanup and disposal more difficult. Do not allow this material to enter drains or sewers.

SECTION 14: TRANSPORT INFORMATION

DOT, IMDG, ICAO, and TDG all have similar shipping information and labeling requirements. In the U.S., the Hazardous Materials Transportation Act (HMTA) is the major transportation-related statute. Enforcement of the HMTA regulations is maintained by the U.S. Department of Transportation (DOT) by delegation to several U.S. Government administrative organizations.

This product is designated as Class 9 Hazardous due to the pentane gas blowing agent component.

The hazardous materials regulations are contained in the U.S. Government Document 49 Code of Federal Regulations. Shipping requirements are contained in 49 CFR Part 172.

UN NUMBER: UN 2211

PROPER SHIPPING NAME: Polymeric Beads, Expandable

TRANSPORT HAZARD CLASS: 9

PACKING GROUP: III (Roman numeral 3)

ENVIRONMENTAL HAZARDS: None

TRANSPORT IN BULK: Not required

SPECIAL PRECAUTIONS: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: The Superfund Amendments and Reauthorization Act of 1986 (SARA) amended the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), which was commonly known as "Superfund." Included under Title III of SARA, was a free standing law, the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA), which has now become commonly known as SARA Title III. Its purpose is to encourage and support emergency planning efforts at the State and local levels and provide the public and local governments with information concerning potential chemical hazards present in their communities.

Together, these regulatory acts establish requirements for Federal, State and local governments and industry regarding emergency planning and "Community Right-to-Know" reporting on hazardous and toxic chemicals. These regulatory laws build upon EPA's Chemical Emergency Preparedness Program (CEPP) and numerous State and local programs aimed at helping communities to better meet their responsibilities in regard to potential chemical emergencies. The Community Right-to-Know provisions are intended to help increase the public's knowledge and access to information on the presence of hazardous chemicals in their communities and releases of these chemicals into the environment.

SARA Title III provisions are divided into four major sections: Emergency Planning (Section 301-303), Emergency Release Notification (Section 304), Community Right-To-Know Reporting Requirements (Sections 311-312) and Toxic Chemical Release Inventory (Section 313).

Pertinent information associated with this product as related to SARA Title III provisions is as follows:

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Section 302/304 Extremely Hazardous Substances: None

Section 311 Hazardous Categorization:

Acute X Chronic X Fire ___ Pressure ___ Reactive ___ N/A ___

NOTE: The above categorizations are associated with the pentane gas component only.

Section 313 Toxic Chemicals: None

Pertinent information related to CERCLA provisions of SARA is as follows:

CERCLA 102(a)/DOT Hazardous Substances: None

STATES RIGHT-TO-KNOW REGULATIONS (U.S.): Components of this product which appear on State Right-To-Know lists are as follows:

Component: Pentane (iso-pentane/normal-pentane)

States: FL, MA, MN, NJ, PA, RI

List of states having right-to-know regulations:

CT (Connecticut), FL (Florida), IL (Illinois), MI (Michigan), LA (Louisiana), MA (Massachusetts), NJ (New Jersey), PA (Pennsylvania), RI (Rhode Island)

SECTION 16: OTHER INFORMATION

The information contained herein is believed to be accurate. It is provided for the purpose of hazard communication in accordance with OSHA guidelines as part of RAPAC's Product Safety Program. It is not intended to constitute performance information concerning the product and accuracy or completeness of the information contained herein, or the product results in any specific instance, and hereby expressly disclaims any implied warranties or merchantability or fitness for a particular purpose, or any other warranties or representations whatsoever, expressed or implied.

Purchasers and users of this product are encouraged and requested to advise those who may come in contact with this product of the information contained herein.

To determine applicability or effects of any law or regulation with respect to the product, users should consult their legal advisor or the appropriate government agency. RAPAC does not undertake to furnish advice on such matters.