

## Uline Inc.

**Anti-Static Peanuts**  
Manufacturer MSDS Number:

### SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Anti-Static Peanuts  
Distributor Name: Uline Inc.  
Distributor Address: 2200 Lakeside Dr.  
Waukegan, IL 60085  
Distributor Telephone: 1-800-295-5510  
For information in North America, call: 1-800-295-5510  
For emergencies in the US, call CHEMTREC: 800-424-9300  
Manufacturer MSDS Revision Date: 1/1/2001  
Manufacturer Name:  
Product Description: Polystyrene Bead, Expandable  
100% Recycled (GR/CR)  
Address:  
Business Phone:  
Comments: Rapac Inc. MSDS No.: 0060  
Product Codes: S-2572

### SECTION 2 : HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

**Chemical Name** Recycled Polystyrene

**CAS#** 009003-53-6  
**Percent** > 92-94

**Chemical Name** Pentane

**CAS#** 000078-78-4  
**Percent** > 5.5-6.5

**Chemical Name** Color Concentrate

**Percent** .5

**Comments:** This document is prepared pursuant of the OSHA Hazard communication standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shown, the identity may be made available as provided in this standard.

### SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance: Foamed polystyrene pieces  
Odor: Very Slight pentane gas odor  
Vapor Pressure: Not applicable  
Boiling Point: Not applicable  
Solubility: In Water: Insoluble  
Density: Expanded Density: From .18 to .24 lb/CFT

### SECTION 4 : FIRE AND EXPLOSION HAZARDS

Fire: Emits dense black smoke when burned.  
Flash Point: 510 deg F  
Flash Point Method: See Section 9  
Upper Flammable or Explosive Limit: 7.8% in air  
Lower Flammable or Explosive Limit: 1.5% in air  
Auto Ignition Temperature: 869 deg F  
Extinguishing Media: Water fog, dry chemical.  
Fire Fighting Instructions: Use positive-pressure, self-contained breathing apparatus. Apply large volume of water directly on flame or burning surface.

### SECTION 5 : HEALTH HAZARDS

**Applies to All Ingredients:**

Potential Health Effects:

Eye Contact:	Solid or dust may cause irritation or corneal injury due to mechanical action.
Skin Contact:	Essentially nonirritating to skin. Mechanical injury only.
Skin Absorption:	Skin absorption is unlikely due to physical properties.
Inhalation:	During expansion small amounts of pentane are released. Excessive exposure to pentane may cause irritation of the upper respiratory tract. Excessive exposure to pentane may cause central nervous system, anesthetic or narcotic effects and may increase sensitivity to epinephrine and increase myocardial irritability (irregular heart-beats). In confined or poorly ventilated areas, pentane vapors can readily accumulate and can cause unconsciousness and death due to displacement of oxygen (simple asphyxia). Representative industrial hygiene surveys of operations where suggested handling precautions are followed show levels to be below the exposure guidelines and levels which cause acute effects.
Ingestion:	Single dose oral toxicity is believed to be very low. No hazards anticipated from ingestion incidental to industrial exposure.
Mutagens Information:	(EFFECTS ON GENETIC MATERIAL): Results of in vitro ('test tube') mutagenicity tests with pentane have been negative.
Target Organs:	SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Repeated excessive exposure to pentane may cause low blood oxygen levels and eye irritation. Pentane was part of a mixture which caused polyneuropathy (nerve damage); however, there is not clear evidence that pentane causes peripheral nervous system effects.

## SECTION 6 : EMERGENCY AND FIRST AID PROCEDURES

Eye Contact:	Flush eyes with plenty of water; mechanical effects only.
Skin Contact:	Wash off in flowing water or shower.
Inhalation:	Remove to fresh air. If not breathing give mouth-to-mouth resuscitation. If breathing is difficult give oxygen. Call a physician.
Ingestion:	No adverse effects anticipated by this route of exposure incidental to proper industrial handling.
Note to Physicians:	Exposure may increase "myocardial irritability." Do not administer sympathomimetic drugs unless absolutely necessary. No specific antidote. Supportive care. Treatment bases on judgement of the physician in response to reactions of the patient.

## SECTION 7 : REACTIVITY DATA

Chemical Stability:	(CONDITIONS TO AVOID): Temperatures over 100 deg C (212 deg F) will cause expansion and release of blowing agent. Temperatures over 300 deg C (572 deg F) will release combustible gases.
Incompatibilities with Other Materials:	(SPECIFIC MATERIALS TO AVOID): Hydrocarbons, Solvents
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products:	Does not normally decompose.

## SECTION 8 : PRECAUTIONS FOR SAFE HANDLING

Leak Response:	Sweep up and reuse if uncontaminated, or dispose of as below.
Handling:	During expansion and curing, check for blowing agent TLV limits on a regular basis. Maintain adequate ventilation to remain below TLV limits.
Waste Disposal:	Bury in approved landfill or burn in adequate, approved incinerator in accordance with all applicable federal, state, and local requirements.
DOT Shipping Name:	Polystyrene beads, expandable
DOT UN Number:	UN2211
DOT Hazard Class:	Class 9
DOT Packing Group:	III
DOT Subpart E Labeling Requirement:	None

## SECTION 9 : CONTROL MEASURES

Ventilation System:	Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
Skin Protection Description:	

**Eye/Face Protection:** No precautions other than clean body-covering clothing should be needed.  
**Respiratory Protection:** Use safety glasses. If there is a potential for exposure to particles which could cause mechanical injury to the eye, wear chemical goggles. Atmospheric levels should be maintained below the exposure guide-lines. When respiratory protection is required for certain operations, use an approved air-purifying respirator.  
**Exposure Limits:** ACGIH TLV is 600 ppm ceiling for pentane. OSHA PEL is 600 ppm for pentane.

**SECTION 10 : OTHER INFORMATION**

**Label Hazard Warning:** **Caution:** This material contains a flammable blowing agent with a lower flammable limit of 1.5% in air and upper flammable limit of 7.8% in air. When expandable polystyrene is stored in closed containers, a flammable atmosphere within the container can develop. To avoid ignition of this atmosphere, observe the following precautions:  
(1) Keep away from open flame, static sparks, lighted cigarettes and other sources of ignition when opening the container.  
(2) Open container in a well-ventilated area and allow enough time to permit escape of flammable vapors before emptying.

The foamability of expandable polystyrene is reduced by blowing agent loss. Therefore, the barrier film liner should be kept closed and the unexpanded material stored below 90 deg F to minimize such loss.

If accidentally ignited by a small flame source, it is combustible and should not be exposed to open flame or other ignition source. Safe handling and storage practices, as for any combustible material, should be observed.

**IMPORTANT:**  
It is advisable, as with all flammable materials, to use safe storage and handling methods and to keep this product away from potential ignition sources.  
1/1/2001

**MSDS Revision Date:**  
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