



# MATERIAL SAFETY DATA SHEET

**Sealed Air Corporation**

Packaging Products Division  
19-01 State Highway 208, Fair Lawn, NJ 07410, (201) 703-5500

ISSUE DATE 6/26/91  
SUPERSEDES  
ISSUE OF \_\_\_\_\_

EMERGENCY TELEPHONE NO.  
(201) 703-5500

PRODUCT NAME  
**AirCap® & PolyCap® R**

CHEMICAL FAMILY <b>Plastic</b>	CHEMICAL NAME & SYNONYMS <b>Polyethylene, Nylon</b>
CHEMICAL FORMULA	TRADE NAME & SYNONYMS

### HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES	%	CURRENT TLV

### PHYSICAL DATA

APPEARANCE (SOLID, LIQUID, GAS) <b>Clear plastic</b>	MOLECULAR WEIGHT <b>NA</b>	MELT POINT <b>200°F</b>	SPECIFIC GRAVITY <b>0.95</b>
VAPOR DENSITY (AIR=1) <b>NA</b>	COLOR <b>Clear</b>	BULK DENSITY <b>0.4 - 1.0 lb/cu.ft.</b>	BOILING POINT <b>NA</b>
VAPOR PRESSURE <b>nil</b>	SOLUBILITY (WATER) <b>0</b>	ODOR <b>none</b>	% VOLATILE BY VOLUME <b>0</b>

### FLAME EXPLOSION DATA

FLASH POINT *F (METHOD USED) <b>Above 500°F</b>	FLAMMABLE LIMIT <b>LeI UeI</b>	EXTINGUISHING MEDIA <b>CO<sub>2</sub>; Dry Chemical; Foam or Water</b>
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SPECIAL FIRE FIGHTING PROCEDURES, UNUSUAL FIRE OR EXPLOSION HAZARDS  
**Use self-contained breathing apparatus in enclosed areas. Burns rapidly. Can emit low level of amine fumes when burning.**

### TOXICITY DATA

LD50, ORAL (INGESTION)	LD50, DERMAL (SKIN CONTACT)	INHALATION (LC50)
FISH, LC50 (LETHAL CONCENTRATION)	TLV (UNITS) (THRESHOLD LIMIT VALUE)	SKIN IRRITATION
EFFECTIVE TO EYE	EFFECTS TO LUNG	OTHER

EMERGENCY AND FIRST AID PROCEDURES, EFFECTS OF OVER EXPOSURE  
**None required**

N.E. = NOT ESTABLISHED N.A. = NOT APPLICABLE A.I. = ACTIVE INGREDIENT

**REACTIVITY DATA**

STABILITY <b>Stable</b>	CONDITIONS TO AVOID
POLYMERIZATION <b>Will not occur</b>	CONDITIONS TO AVOID
INCOMPATIBILITY (MATERIALS TO AVOID)	
HAZARDOUS DECOMPOSITION PRODUCTS	

**SPILL OR LEAK PROCEDURE**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

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WASTE DISPOSAL METHOD

**Dispose away from food or water supply in approved land fill complying with all local, state, and federal regulations.**

**SPECIAL PROTECTION DATA**

RESPIRATOR TYPE <b>None required</b>	
EYE PROTECTION <b>None required</b>	GLOVES <b>None required</b>
OTHER PROTECTIVE EQUIPMENT	

**SPECIAL PRECAUTIONS & STORAGE DATA**

STORAGE TEMPERATURE (OPTIMUM) Min.                      Max.	AVERAGE SHELF LIFE
SPECIAL SENSITIVITY (HEAT, LIGHT, MOISTURE)	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING <b>Store in area protected with automatic sprinklers.</b>	

**SHIPPING DATA**

D.O.T. SHIPPING NAME		TECHNICAL SHIPPING NAME	
D.O.T. HAZARD CLASSIFICATION	UN/NA NO.	R.Q.	
D.O.T. LABELS REQUIRED	LABEL	T.S.C.A. STATUS	
REASON FOR ISSUE:	FRT. CLASS BULK: FRT. CLASS PKG:		
INITIATED BY:	TITLE:	APPROVED BY: <i>SR Schulte</i>	TITLE: <b>Dir. of R&amp;D</b>
DATE INITIATED:	DATE APPROVED: <b>June 26, 1991</b>		

N.E. = NOT ESTABLISHED    N.A. = NOT APPLICABLE    A.I. = ACTIVE INGREDIENT

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# Century Foam Mfg., Inc.

1951 Galaxie Street • P.O. Box 07404 • Columbus, Ohio 43207 • (614) 444-2131

## MATERIAL SAFETY DATA SHEET

### I - PRODUCT INFORMATION

PRODUCT:	HAZARD RATING: 2=Moderate	HEALTH	0	
	0= Minimal	3= Serious	FIRE	2
	1= Slight	4=Severe	REACTIVITY	0

SYNONYMS: Expanded Polystyrene (EPS)  
 PRODUCT GRADES: Type I, VIII, II, and IX  
 CHEMICAL FAMILY: Polystyrene Thermoplastic  
 CAS REGISTRY NO.: 9003536  
 CAS NAME: Ethenylbenzen Homopolymer  
 FORMULA: (C<sub>8</sub>H<sub>8</sub>)<sub>n</sub>  
 TSCA INVENTORY STATUS: Listed

CONTACT: Century Foam Manufacturing  
 1951 Galaxie St.  
 PO Box 07404  
 Columbus, OH 43207

### II - INGREDIENTS

HAZARDOUS COMPONENTS:	CAS REGISTRY NO.	APPROX. WEIGHT PERCENTAGE:
Pentane	109660	1% Max.
Halogen Flame Retardants	N/A	.9% Max.

NON-HAZARDOUS COMPONENTS:	CAS REGISTRY NO.	APPROX. WEIGHT PERCENTAGE:
Polystyrene	9003536	98% Min.

### III - PHYSICAL DATA

FORM: Rigid cellular foam blocks, boards and shapes	VAPOR PRESSURE: N/A
COLOR: White	VOLATILES BY VOLUME:
ODOR: Very slight hydrocarbon odor	<4% (pentane and water)
BOILING POINT: N/A	VAPOR DENSITY (Air=1): N/A
MELTING POINT: Softens at 175 F to 220 F	EVAPORATION RATE: None
SPECIFIC GRAVITY (Water=1): Density 0.6 pcf to 2.0 pcf	SOLUBILITY IN WATER: Insoluble

### IV - FIRE & EXPLOSION DATA

FLASH PT., AND METHOD USED: 610 F Min. (ASTM D 1929)	AUTOIGNITION TEMP.: 850 F Min.
SPECIAL FIRE FIGHTING INSTRUCTIONS: Use approved self-contained breathing apparatus respirator and personal protective clothing (Turn out gear).	UNUSUAL FIRE AND EXPLOSION HAZARDS: May produce dense black smoke. Smoke consists of carbon (soot) carbon monoxide, carbon dioxide, and water. Dust generated by fabrication i.e. sawing, sawing, etc. will increase fire hazard and should be handled as such.
EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical, foam.	

### V - REACTIVITY DATA

STABILITY (CONDITIONS TO AVOID): Stable, avoid fire and high temperatures.	HAZARDOUS DECOMPOSITION: Carbon monoxide, carbon dioxide, carbon, water, hydrogen halide.
INCOMPATABILITY (MATERIALS TO AVOID): Will dissolve in most organic solvents, and some insecticides, aldehydes and amines.	HAZARDOUS POLYMERIZATION: None



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B. B. Bradley  
Foam

## VI - HEALTH HAZARDS AND FIRST AID

### PRINCIPAL HEALTH HAZARDS AND SIGNS & SYMPTOMS OF EXPOSURE:

**EYE CONTACT:** Dust or particles may cause mechanical eye irritation and/or injury.  
**INHALATION:** Dust from mechanical fabrication may cause upper respiratory irritation. Fumes from hot wire cutting can also cause upper respiratory irritation.  
**SKIN CONTACT:** None. May produce slight skin irritation in a few individuals.  
**INGESTION:** Biologically inert. May act as an obstruction if swallowed.

**CARCINOGENICITY:** None.

### SAFETY PRECAUTIONS

Use positive ventilation. Mechanical fabrication, sanding, etc. requires the use of safety glasses or goggles and dust mask.

### FIRST AID:

**EYES:** Rinse with clear water. Remove foreign particles with clean, lint free, cloth. Obtain medical attention if pain, blinking, tears or redness persist.  
**INHALATION:** If overcome by exposure, remove to fresh air. Provide oxygen and artificial respiration. Get medical attention.  
**INGESTION:** Not expected to present any significant ingestion hazard. Consult physician if swallowed.

## VII - EMPLOYEE PROTECTION

### PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATORY PROTECTION:** Use approved dust mask when sawing or sanding.  
**SKIN PROTECTION:** None required. Wear gloves or sleeves, if sensitivity is noted.  
**EYE PROTECTION:** Use approved safety glasses/goggles when sawing or sanding.

**GENERAL CONTROL MEASURES:** Use positive ventilation. Wear safety glasses/goggles and dust mask if mechanical fabrication is to take place.

## VIII - SPILL OR LEAK PROCEDURES

**SPILL, LEAK, OR RELEASE PROCEDURES:** Normal good housekeeping should be observed. Material can be swept or picked up and placed into a suitable container for disposal.

**REPORTABLE QUANTITY:** None  
**DISPOSAL METHOD:** Recycle, incinerate (WTE) or land fill per local and state regulations.

## IX - SPECIAL PRECAUTIONS

**STORAGE AND HANDLING:** Expanded Polystyrene, although it contains a fire retardant additive, is considered to be combustible and adequate protection from sources of ignition should be taken.

**TRANSPORTATION REQUIREMENTS:** Not a D.O.T. "Hazardous Material".

# Material Safety Data Sheet

MICROCELL

3 B. East

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910.1200. Standard must be consulted for specific requirements.

QUICK IDENTIFIER  
Common Name: (used on label and list)

## SECTION 1 -

Manufacturer's Name: **SENTINEL FOAM PRODUCTS/Packaging Industries Group, Inc.**  
 Address: **130 North Street**  
 City, State, and ZIP: **Hyannis, MA 02601**  
 Emergency Telephone No.: **(508) 775-5220**  
 Other Information Calls:  
 Date Prepared: **6/87**  
 Signature of Person Responsible for Preparation (Optional):

## SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (optional)	CA NC
Polyethylene Resin	N/A	N/A	N/A	> 98%	0090 88
Blowing agent residual	N/A	N/A	N/A	< .5%	0001 77
Additives (colorant)	N/A	N/A	N/A	<1.0%	
Metals	N/A	N/A	N/A	< .05%	

## SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: **N/A**  
 Specific Gravity (H<sub>2</sub>O=1): **0.02-0.2**  
 Vapor Pressure (mm Hg): **N/A**  
 Vapor Density (Air = 1): **N/A**  
 Solubility in Water: **Insoluble**  
 Reactivity in Water: **None**  
 Appearance and Odor: **Opaque - Cellular Solid Plastic Foam**  
 Melting Point: **220°F**

## SECTION 4 - FIRE & EXPLOSION DATA

Flash Point: **340°C**  
 Method Used: **--**  
 Flammable Limits in Air % by Volume: **LEL Lower N/A UEL Upper N/A**  
 Auto-ignition Temperature: **N/A**  
 Extinguisher Media: **Water Fog, Water Spray, Foam, CO<sub>2</sub>, dry chemi**  
 Special Fire Fighting Procedures: **Utilize water spray/fog to cool fire exposed surfaces and to protect personnel.**  
 Unusual Fire and Explosion Hazards: **None**

**SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)**

Stability  Unstable  Stable  Conditions to Avoid **Open flame**

Incompatibility (Materials to Avoid) **None**

Hazardous Decomposition Products **Under normal combustion conditions carbon monoxide is generated. Additional toxic substances may be released under less than full combustion conditions.**

Hazardous Polymerization  May Occur  Will Not Occur  Conditions to Avoid **N/A**

**SECTION 6 - HEALTH HAZARDS**

1. Acute **None** 2. Chronic **None**

Signs and Symptoms of Exposure **N/A**

Medical Conditions Generally Aggravated by Exposure **N/A**

Chemical Listed as Carcinogen or Potential Carcinogen  Yes  No  National Toxicology Program  Yes  No  I.A.R.C. Monographs  Yes  No  OSHA  Yes  No

Emergency and First Aid Procedures **Mechanical injury only. Treatment based on sound judgment of physician and individual reaction of patient.**

**ROUTES OF ENTRY**

- 1. Inhalation **No TLV suggested--dust, if formed, is nuisance only.**
- 2. Eyes **Mechanical injury--may cause slight irritation.**
- 3. Skin **Not absorbed in toxic amounts.**
- 4. Ingestion **Considered low in single dose oral toxicity--considered inert**

**SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES**

Precautions to be Taken in Handling and Storage **Practice reasonable care and cleanliness as a common sense safety precaution.**

Other Precautions **This product is combustible and should not be exposed to flame or other ignition sources.**

Steps to be Taken in Case Material is Released or Spilled **Pick up and handle as any other inert solid.**

Waste Disposal Methods (Consult federal, state, and local regulations) **Reuse, landfill burial, or incineration.**

**SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES**

Respiratory Protection (Specify Type) **None normally required--if needed, use approved dust respirator**

Ventilation **None** Local Exhaust **Recommended over thermal** Mechanical (General) **N/A** Special **N/A** Other **N/A**

Protective Gloves **None required & wire cutting** Eye Protection **Not normally necessary--safety glasses recommended as standard industrial procedure.**

Other Protective Clothing or Equipment **None**

Work/Hygienic Practices

**IMPORTANT**

Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate.