

ARVRON, INC. STEER-O-CELL®

MATERIAL SAFETY DATA SHEET

I-PRODUCT INFORMATION

PRODUCT: ARVRON, INC.
STEER-O-CELL® MODIFIED

SYNONYMS: EPS, Expanded Polystyrene

PRODUCT GRADES: Type I, VIII, II and IX

CHEMICAL FAMILY: Polystyrene Thermoplastic Polymer

CAS REGISTRY NO: 9003-53-6

CAS NAME: Benzene, Ethenyl-Homopolymer

FORMULA: (C₈H₈)_x

TSCA INVENTORY STATUS: Listed

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

CONTACT: ARVRON, INC.
4720 Clay S.W.
Grand Rapids, MI 49548
(616) 530-1888

II-INGREDIENTS

HAZARDOUS COMPONENTS:	CAS REGISTRY NO:	APPROX. WEIGHT PERCENTAGE
Pentane	109-66-0	Less Than 2%

NON-HAZARDOUS COMPONENTS	CAS REGISTRY NO:	APPROX. WEIGHT PERCENTAGE
Polystyrene	9003-53-6	98% Min.

III-PHYSICAL DATA

FORM: Rigid Cellular Foam Blocks, Boards & Shapes

COLOR: White

ODOR: Very Slight Hydrocarbon Odor

BOILING POINT: N/A

Melting Point: Softens at 175° to 220°

SPECIFIC GRAVITY: [Water = 1]: Density 0.6PCF to 2.0PCF

VAPOR PRESSURE: N/A

VOLATILES BY VOLUME: Less than 4% Pentane & Water

VAPOR DENSITY: (AIR = 1): N/A

EVAPORATION RATE: None

SOLUBILITY IN WATER: Insoluble

IV-FIRE & EXPLOSION DATA

FLASH POINT, AND METHOD USED: 610°F Min. [ASTM D 1929]

SPECIAL FIRE FIGHTING INSTRUCTIONS: Use approved self-contained breathing apparatus respirator and approved Personal Protective Clothing.

EXTINGUISHING MEDIA: Water Fog, Carbon Dioxide, Foam and Dry Chemical

AUTOIGNITION TEMPERATURE: 850°F. Min.

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., Sanding, Sawing, Etc. will increase fire hazard and should be handled accordingly.

V-REACTIVITY DATA

STABILITY [CONDITIONS TO AVOID]: Stable. Avoid Fire and High Temperatures.

INCOMPATIBILITY [MATERIALS TO AVOID]: Will dissolve in most organic solvents, and some insecticides, Aldehydes and Amines.

HAZARDOUS DECOMPOSITION: Carbon Monoxide Carbon Dioxide, Carbon, Water, Hydrogen Halide

HAZARDOUS POLYMERIZATION: None

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VI-HEALTH HAZARDS & FIRST AID

PRINCIPAL HEALTH HAZARDS & SIGNS & SYMPTOMS SKIN CONTACT: None

OF EXPOSURE:

INGESTION: Biologically inert. May act as an obstruction if swallowed.

EYE CONTACT: Dust or particles may cause mechanical eye irritation and/or injury.

CARCINOGENICITY: None

INHALATION: Dust from mechanical fabrication may cause upper respiratory irritation. Fumes from hot wire cutting can also cause upper respiratory irritation.

SAFETY PRECAUTIONS: Use positive ventilation. Mechanical Fabrication, Sanding, Etc. requires the use of safety glasses or goggles and dust mask.

FIRST AID

SKIN: Not expected to present skin hazard. wash exposed areas with mild soap and water. Consult physician if irritation persists.

EYES: Rinse with clean water. Remove foreign particles with clean, lint free cloth. Obtain medical attention if pain, blinking, tears or redness persist.

INGESTION: Not expected to present significant ingestion hazard. Consult physician if swallowed.

INHALATION: If overcome by exposure, remove to fresh air. Provide oxygen and artificial respiration. Get medical attention.

VII-EMPLOYEE PROTECTION

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: Use approved safety glasses / goggles when sawing or sanding.

RESPIRATORY PROTECTION: Use approved dust mask when sawing or sanding.

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

SKIN PROTECTION: None required. Wear gloves and /or sleeves, if sensitivity noted.

VIII-ENVIRONMENTAL HAZARDS & PROTECTION

ENVIRONMENTAL HAZARDS: Sewer / Water Way Obstruction; fish may eat beads and obstruct their digestive tract.

REPORTABLE QUANTITY: None

SPILL, LEAK, OR RELEASE PROCEDURES: Normal good housekeeping should be observed.

DISPOSAL METHOD: Recycle, incinerate [WTE] or landfill per local and state regulations.

Material can be swept or picked up and placed into a suitable container for disposal.

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"

ADDITIONAL INFORMATION

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STEER-O-CELL ®