



MATERIAL SAFETY DATA SHEET

PRODUCT INFORMATION

PRODUCT NAME:

Unisol Expanded Polystyrene (EPS)

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COMPOSITION AND INGREDIENT INFORMATION

<u>COMMON NAME</u>	<u>CHEMICAL NAME</u>	<u>CAS No.</u>	<u>Wt. %</u>
Polystyrene Foam	Ethenylbenzene homopolymer	9003-53-6	92 – 100
Pentanes* (isomers)	n-pentane Isopentane Cyclopentane	109-66-0; 78-78-4; 287-92-3	≤ 8
Styrene (residual)	Vinyl Benzene	100-42-5	0 - 0.2

* This is a flammable blowing agent that off-gasses from product. Most of the pentane off-gasses prior to shipment. However, residual blowing agent may gradually off-gas from the foam during storage or use.

PHYSICAL DATA

FORM:

Rigid cellular foam blocks, boards & shapes

VAPOR PRESSURE:

N/A

COLOR:

White

VOLATILES BY VOLUME:

<4% (pentane and water)

ODOR:

Very slight hydrocarbon odor

BOILING POINT:

N/A

VAPOR DENSITY:

N/A

MELTING POINT:

Softens at 79.4° C. to 104.4° C.

EVAPORATION RATE:

None

SOLUBILITY IN WATER:

Insoluble

FIRE & EXPLOSION DATA

FLASH PT., AND METHOD USED:

321.1° C. Min.(ASTM D 1929)

SPECIAL FIRE FIGHTING INSTRUCTIONS:

Use approved self-contained breathing apparatus respirator and personal protective clothing. (Turn out gear).

EXTINGUISHING MEDIA:

Water fog, carbon dioxide, dry chemical, and foam.

AUTO IGNITION TEMPERATURE:

454.4° C. Minimum

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.

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

HEALTH HAZARDS & FIRST AID

PRINCIPAL HEALTH HAZARDS & SIGNS AND SYMPTOMS OF EXPOSURE:

FIRST AID:

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

EYES:

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

INHALATION:

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

SKIN:

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

INGESTION:

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

EMPLOYEE PROTECTION

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION:

Use approved dust mask when sawing or sanding.

SKIN PROTECTION:

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

EYE PROTECTION:

Use approved safety glasses/goggles when sawing or sanding.

SAFETY PRECAUTIONS:

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

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 landfill per local and state regulations.

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."

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