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## M A T E R I A L   S A F E T Y   D A T A   S H E E T

Dow Chemical U.S.A.\*   Midland, MI 48674   Emergency Phone: 517-636-4400

Product Code: 82071

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PRODUCT NAME: STYROFOAM (R) BRAND TONGUE &amp; GROOVE EXTRUDED POLYSTYRENE INSULATION (1.5 INCH)

Effective Date: 05/09/88   Date Printed: 05/26/88

MSDS:002462

## 1.   INGREDIENTS:

Polystyrene	CAS# 009003-53-6	Balance
Dichlorodifluoromethane	CAS# 000075-71-8	0- 7.5%
Ethyl chloride	CAS# 000075-00-3	0- 4.0%
Polyethylene	CAS# 009002-88-4	0- 6%
Hexabromocyclododecane	CAS# 003194-55-6	2%

This document is prepared pursuant to 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 shows, the identity may be made available as provided in this standard.

## 2.   PHYSICAL DATA:

BOILING POINT: Not applicable  
VAP. PRESS: Not applicable  
VAP. DENSITY: Not applicable  
SOL. IN WATER: None  
SP. GRAVITY: .027 To .064  
APPEARANCE: Rigid cellular foam board.  
ODOR: No odor.

## 3.   FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: Not applicable.  
METHOD USED: Not applicable.

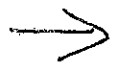
FLAMMABLE LIMITS  
LFL: Not applicable.  
UFL: Not applicable.

EXTINGUISHING MEDIA: Water fog.

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## 3. FIRE AND EXPLOSION HAZARD DATA: (CONTINUED)

FIRE & EXPLOSION HAZARDS: Emits dense, black smoke when burned.

Certain operations, such as grinding or cutting, may lead to a build-up of dust suspended in air which can cause a dust explosion if ignited. Provide adequate ventilation, and appropriate dust handling systems.

FIRE-FIGHTING EQUIPMENT: Wear positive-pressure, self-contained breathing apparatus.

Apply large volume of water directly on flame or burning surface.

## 4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Avoid fire and high temperatures. Temperatures over 300C (572F) will release combustible gases.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Aromatic hydrocarbons, higher (>C5) aliphatic hydrocarbons, esters, amines, higher aldehydes.

HAZARDOUS DECOMPOSITION PRODUCTS: Does not normally decompose. In smoldering or flaming conditions, carbon monoxide, carbon dioxide, carbon. Evolution of small amounts of hydrogen bromide when burned or heated over 250C (482F); under high heat, non-flaming conditions, small amounts of aromatic hydrocarbons such as styrene and ethylbenzene.

HAZARDOUS POLYMERIZATION: Will not occur.

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## 5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Pick up, or if dust or in small pieces, sweep up and place in suitable container for disposal.

DISPOSAL METHOD: Bury in an approved landfill, or burn in an adequate incinerator with excess oxygen, in accordance with all local, state and federal regulations.

## 6. HEALTH HAZARD DATA:

EYE: Solid or dust may cause irritation or corneal injury due to mechanical action.

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

SKIN ABSORPTION: Not likely to be absorbed due to physical properties.

INGESTION: Ingestion is unlikely due to physical state. Physical injury only. May cause choking if swallowed.

INHALATION: Dust may cause irritation to upper respiratory tract.


SYSTEMIC & OTHER EFFECTS: Repeated exposures to this product are not anticipated to cause any significant adverse effects. Neither polystyrene foam dust nor dichlorodifluoromethane caused cancer in long-term animal studies.

No birth defects were seen in animal studies with dichlorodifluoromethane or ethyl chloride. Dichlorodifluoromethane has been reported to have no adverse effects on reproduction in rats. Results of tests for genetic effects with dichlorodifluoromethane and hexabromocyclododecane have been negative.

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## 7. FIRST AID:

**EYES:** Irrigate immediately with water for at least 5 minutes.  
Mechanical irritation only.

**SKIN:** No adverse effects anticipated by this route of exposure.

**INGESTION:** No adverse effects anticipated by this route of exposure.

**INHALATION:** Remove to fresh air if respiratory irritation from dust occurs. Consult a physician.

## 8. HANDLING PRECAUTIONS:

**EXPOSURE GUIDELINE(S):** ACGIH TLV and OSHA PEL are 1000 ppm for ethyl chloride. ACGIH TLV and OSHA PEL are 1000 ppm for dichlorodifluoromethane.

**VENTILATION:** Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

**RESPIRATORY PROTECTION:** In dusty atmospheres, use an approved dust respirator.

**SKIN PROTECTION:** No precautions other than clean body-covering clothing should be needed.

**EYE PROTECTION:** Use safety glasses. If there is a potential for exposure to particles which could cause mechanical injury to the eye, wear chemical goggles.

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## 9. ADDITIONAL INFORMATION:

### REGULATORY REQUIREMENTS:

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Not to have met any hazard category.

### SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Limited industrial hygiene measurements of ethyl chloride in ventilated warehouses and production facilities indicate that ethyl chloride is present in the air at no more than 10 ppm even when large quantities of plastic foam are present.

Gas fired recirculating air furnaces or heaters, gas water heaters, etc., drawing air from areas where there may be a presence of ethyl chloride gas from storage or fabrication of expanded polystyrene foam, can be subjected to rust and corrosion problems as a result of thermal decomposition of ethyl chloride to hydrogen chloride.

This expanded polystyrene insulation is combustible and may constitute a fire hazard if improperly used or installed. It should be adequately protected. Use only as directed by the specific instructions for this product. This insulation contains a flame retardant additive to inhibit accidental ignition from small fire sources. During shipping, storage, installation and use this material should not be exposed to flame or other ignition sources.

Storage of large quantities of foam in confined, virtually airtight spaces should be avoided to prevent buildup of combustible vapors.

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## 9. ADDITIONAL INFORMATION: (CONTINUED)

MSDS STATUS: Revised sections 1, 3, 4, 6, 7, 8 and 9.

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