

## **MATERIAL SAFETY DATA SHEET**

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### SECTION 1 -- IDENTITY

NAME: Flexible urethane foam  
CHEMICAL TYPE: Polyether-based urethane polymer  
TRADE NAMES & SYNONYMS: Flexible polyurethane foam, pure foam, flame retardant foam, high comfort foam, HR foam, antistatic foam & others.

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### SECTION 2 -- HAZARDOUS INGREDIENTS

The material is not made from chemical components that are known to represent possible carcinogenic, mutagenic or other chronic hazards. However, TDI mixed with corn oil administered to lab animals has been shown to be carcinogenic.

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### SECTION 3 -- PHYSICAL & CHEMICAL CHARACTERISTICS

Since urethane foam is a solid, physical characteristics such as boiling point, vapor pressure, vapor density, percent volatiles, evaporation rate, etc. are not applicable.

DENSITY: 0.9 - 4.0 lbs. per cu. ft.  
IGNITION POINT: 600 - 650 degrees F  
AUTOIGNITION POINT: 750 - 800 degrees F  
APPEARANCE: Can come in any color. Looks like a cellular material similar to foam rubber.

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### SECTION 4 -- FIRE & EXPLOSION HAZARD DATA

OSHA CLASSIFICATION: Combustible solid  
NFPA SPRINKLER CLASSIFICATION: Upholstery with plastic foams. Extra hazard.  
EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry powder  
FIRE FIGHTING PROTECTION: Use NIOSH-approved self-contained breathing apparatus & protective clothing including boots.  
UNUSUAL FIRE HAZARDS: Once ignited, can produce rapid flame spread, intense heat, dense smoke and toxic gases. Can turn into burning liquid which can drip and flow.

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## SECTION 5 -- PHYSICAL HAZARDS

REACTIVITY: Stable. Hazardous polymerization will not occur.

CONDITIONS TO AVOID: Strong acids and alkalis will deteriorate foam properties.

INCOMPATIBILITY: Unknown

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion, hot wire cutting, heat sealing, hot stamping & flame laminating operations of foam may produce carbon monoxide, oxides of nitrogen and traces of isocyanates & hydrogen cyanide.

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## SECTION 6 -- HEALTH HAZARDS

THRESHOLD LIMIT VALUE: None established

OSHA PERMISSIBLE EXPOSURE: None established

ACUTE ORAL LD 50: Greater than 5000 mg./kg. (rat)

ACUTE DERMAL LD 50 LIMIT: No available data

PRIMARY SKIN IRRITANT: Not known to be irritant

EYE IRRITATION: Dust can cause irritation

PRIMARY ROUTE OF ENTRY: Foam dust -- inhalation

INHALATION: Animal studies indicate that chronic overexposure to dusts may cause inflammation of the lungs, fibrosis & airway obstruction.

## CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARGINOGEN

National Toxicology Program: No

I.A.R.C. Monographs: No

OSHA: No

## EMERGENCY FIRST AID PROCEDURES

SKIN: Does not apply

INGESTION: Does not apply

EYES: Flush thoroughly with water

INHALATION (OF DUST): Call physician if coughing, discomfort or air passage obstruction occurs.

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## SECTION 7 -- SPECIAL PROTECTION INFORMATION

VENTILATION: Use adequate mechanical ventilation when hot wire cutting, heat sealing, hot stamping & flame laminating flexible urethane foam. Also use ventilation in operations that will generate large quantities of foam dust such as in continuous sawing, fabrication or buffing operations.

PROTECTIVE EQUIPMENT: Unless exposure to foam dust is anticipated, goggles, gloves & dust masks are not required.

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## SECTION 8 -- SPECIAL PRECAUTIONS & SPILL/LEAK PROCEDURES

### HANDLING & STORAGE:

- Store buns, sheets and fabricated items indoors under fusible sprinkler protections.
- Allow a minimum of six feet clearance between tops of foam stacks and sprinkler heads.
- Do not smoke or use naked lights, open flames, exposed electrical heating elements or other ignition sources near stored flexible foam.
- Store buns and sheets with adequate aiseways to permit access to all storage areas.
- Do not allow cuttings of foam scrap to accumulate.
- Be aware that terms like “fire retardant” and “flame retardant” sometimes used to describe flammability properties do not mean fire safety under all conditions and that small scale fire tests are “NOT INTENDED TO REFLECT HAZARDS PRESENTED BY THESE OR ANY OTHER MATERIALS UNDER ACTUAL FIRE CONDITIONS.”
- When fabricating flexible polyurethane foam, keep a fire extinguisher nearby.

### WATER DISPOSAL METHODS:

Sanitary landfills, commercial incineration. CHECK LOCAL REGULATIONS.

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NOTICE-----NOTICE-----NOTICE

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