



200 E. North Street
Spencerville, OH
45887

(419) 647-4172
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<http://www.flexiblefoam.com>

**MATERIAL SAFETY DATA SHEET
LABOR**

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

U.S. DEPARTMENT OF

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

____ Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

SECTION I PRODUCT AND COMPANY IDENTIFICATION

IDENTITY (As Used on Label and List)

Chemical Family: ***Flexible and Rigid Polyurethane Foam Products***
ALL FLEXIBLE & RIGID POLYURETHANE FOAM PRODUCTS & CARPET PAD
C.A.S. Number: 9009-54-5

Flexible Foam Products polyurethane foam is a fully cross-linked reaction product of polyhydroxy polyol, toluene diisocyanate, catalysts, surfactants, pigments and water. Polyurethane foam product is a polymeric material consisting of repeating units of carbon, hydrogen, oxygen and nitrogen.

Manufacturer's Name
Flexible Foam Products, Inc.

Emergency Telephone Number
(419) 647-4172

Corporate Address
P.O. Box 124, 200 E. North St
Spencerville, OH 45887

Telephone Number for Information
(419) 647-4172

Note: see <http://www.flexiblefoam.com/About/Locations.aspx> for all manufacturing locations.

SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity; Common Names)

<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits Recommended</u>	<u>% (optional)</u>
N/A	N/A	N/A	100

POLYURETHANE FLEXIBLE FOAM PRODUCTS – C.A.S. No. 9009-54-5

Chemical Type – POLYETHER AND POLYESTER BASED URETHANE POLYMERS

SECTION III PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point N/A Specific Gravity (H₂O = 1) N/A (varies by grade)

Vapor Pressure N/A Melting Point 300-400°F
(mm Hg.)

Vapor Density N/A Evaporation Rate N/A
(AIR = 1) (WATER = 1)

Solubility in Water - Insoluble

Appearance and Odor
FLEXIBLE OR SEMI-RIGID SOLID WITH CELLULAR STRUCTURE; ANY
COLOR, NEARLY ODORLESS.

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

(PLEASE NOTE WARNING IN THIS SECTION AND IN SECTION VII)

Flash Point (Method used)	Flammable Limits	LEL	UEL
Decomposition products flash at > 500°F	N/A	N/A	N/A

Extinguishing Media:
Water Spray, Carbon Dioxide

Special Fire Fighting Procedures:
WEAR SELF- CONTAINED BREATHING APPARATUS AND PROTECTIVE
CLOTHING, INCLUDING BOOTS.

Unusual Fire and Explosion Hazards:**WARNING:**

DO NOT EXPOSE POLYURETHANE FOAM TO WELDING, SMOKING
MATERIALS, NAKED LIGHTS, OPEN FLAMES, SPACE HEATERS, BURNING
OPERATIONS OF ANY KIND, OTHER IGNITION SOURCES OR OTHER
SUFFICIENTLY INTENSE CAUSES OF HEAT OR FLAMES. IF IGNITED, FOAM
CAN PRODUCE RAPID FLAME SPREAD, INTENSE HEAT, DENSE BLACK
SMOKE AND TOXIC GASES. MATERIAL CAN MELT INTO A BURNING LIQUID
THAT CAN DRIP AND FLOW.

LIKE OTHER ORGANIC MATERIALS, ONCE IGNITED, POLYURETHANE
FOAMS WILL BURN RAPIDLY, RELEASING GREAT HEAT, TOXIC GASES, AND
CONSUMING OXYGEN AT A HIGH RATE. IN AN ENCLOSED SPACE THE
RESULTING DEFICIENCY OF OXYGEN WILL PRESENT A DANGER OF
SUFFOCATION TO THE OCCUPANTS. TOXIC GASES AND SMOKE RELEASED
BY THE BURNING FOAM CAN BE INCAPACITATING OR FATAL TO HUMAN
BEINGS IF INHALED IN SUFFICIENT QUANTITIES. **NOTE:** FIRE RETARDENT
FOAMS MAY ONLY SMOULDER AND MELT BUT RELEASE THE SAME TOXIC
GASES.

FOLLOW PROCEDURES OUTLINED BY INSURANCE CARRIER AND FIRE CODES AND ALL OTHER CODE REQUIREMENTS IN GENERAL. STORE OR USE IN ESFR SPRINKLED AREA AWAY FROM ALL HEAT AND OPEN FLAME.

SECTION V - REACTIVITY DATA

Stability: Stable (X) Unstable ()

Conditions to Avoid: OPEN FLAME AND OTHER HEAT SOURCES

Incompatibility (Materials to Avoid)

DECOMPOSED BY STRONG ACIDS OR ALKALIES

Hazardous Decomposition or Byproducts: BURNING OR ELEVATED TEMPERATURE WILL PRODUCE TOXIC GASES AND DENSE SMOKE (see warning in Sections IV above and VII below)

Hazardous Polymerization	May Occur () Will Not Occur (x)	Conditions to avoid: Open Flame and Other Heat Sources <i>(See Warning in Sections IV & VII)</i>
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SECTION VI – HEALTH HAZARD DATA

Route(s) of Entry: Inhalation? NO Skin? NO Ingestion? NO

Health Hazards (Acute and Chronic)

NONE EXPECTED IN NORMAL, AMBIENT TEMPERATURE USE, LOW ORAL OR DERMAL TOXICITY; INHALATION OF FOAM DUST MAY BE HARMFUL TEMPERATURES OVER 200°F MAY PRODUCE IRRITATING OR TOXIC FUMES

Carcinogenicity:	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO
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Signs and Symptoms of Exposure: NONE KNOWN

General Conditions Generally Aggravated by Exposure: NONE KNOWN

Emergency and First Aid Procedures:
IF OVER EXPOSED TO FUMES OR SMOKE, REMOVE VICTIM TO FRESH AIR AND CONSULT PHYSICIAN. IN CASE OF EYE IRRITATION, FLUSH WELL WITH COPIOUS AMOUNTS OF WATER & CONSULT WITH A PHYSICIAN.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken In Case Material is Released or Spilled:

NONE REQUIRED

Waste Disposal Method:

APPROVED LANDFILL OR RECYCLE TO CARPET PADDING

Precautions to be Taken in Handling and Storing:

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DO NOT EXPOSE POLYURETHANE FOAM TO WELDING, SMOKING MATERIALS, NAKED LIGHTS, OPEN FLAMES, SPACE HEATERS, BURNING OPERATIONS OF ANY KIND, OTHER IGNITION SOURCES OR OTHER SUFFICIENTLY INTENSE CAUSES OF HEAT OR FLAMES. IF IGNITED, FOAM CAN PRODUCE RAPID FLAME SPREAD, INTENSE HEAT, DENSE BLACK SMOKE AND TOXIC GASES. MATERIAL CAN MELT INTO A BURNING LIQUID THAT CAN DRIP AND FLOW.

LIKE OTHER ORGANIC MATERIALS, ONCE IGNITED, POLYURETHANE FOAMS WILL BURN RAPIDLY, RELEASING GREAT HEAT, TOXIC GASES, AND CONSUMING OXYGEN AT A HIGH RATE. IN AN ENCLOSED SPACE THE RESULTING DEFICIENCY OF OXYGEN WILL PRESENT A DANGER OF SUFFOCATION TO THE OCCUPANTS. TOXIC GASES AND SMOKE RELEASED BY THE BURNING FOAM CAN BE INCAPACITATING OR FATAL TO HUMAN BEINGS IF INHALED IN SUFFICIENT QUANTITIES. **NOTE:** FIRE RETARDENT FOAMS MAY ONLY SMOULDER AND MELT BUT RELEASE THE SAME TOXIC GASES.

FOLLOW PROCEDURES OUTLINED BY INSURANCE CARRIER AND FIRE AND ALL OTHER CODE REQUIREMENTS IN GENERAL. STORE OR USE IN ESFR SPRINKLED AREA AWAY FROM ALL HEAT AND OPEN FLAME.

Other Procedures: FOLLOW GOOD HOUSEKEEPING PRACTICES.

Safe Handling and Storage: Warehousing of bun stock, sheets, rolls and fabricated items should be stored under a fusible sprinkler system with a minimum of six feet clearance between

stacks of foam and the sprinkler heads.

Do not store foam near any ignition sources such as exposed electrical or gas heating elements, open flames and exposed lights. Do not smoke in foam storage areas.

Do not allow foam scrap and cuttings to accumulate and maintain clear aisles with adequate access to all storage areas and exits.

Other Precautions: Notify local fire companies of presence of large quantities of foam.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type)

FOR DUST OR FUMES FROM HOT PROCESSING, USE PROPER APPROVED RESPIRATORY EQUIPMENT DESIGNED FOR ORGANIC VAPORS AND ISOCYANATES.

Ventilation: LOCAL EXHAUST VENTILATION IS RECOMMENDED FOR THOSE PROCESSING PROCEDURES THAT MAY GENERATE FOAM DUST AND DECOMPOSITION PRODUCTS. EXAMPLES OF THESE PROCESSES INCLUDE SAWING, GRINDING , BUFFING AND FLAME LAMINATION, HOT WIRE CUTTING, HEAT SEALING AND HOT STAMPING.

Protective Gloves: N/A

Eye Protection: N/A

Other Protective Clothing or Equipment:

DUST COLLECTING EQUIPMENT WHEN DUST IS GENERATED – EYE PROTECTION AS DUST MAY CAUSE MECHANICAL IRRITATION OF EYES.

Work / Hygienic Practices: MECHANICAL VENTILATION AND PPE SPECIFIED ABOVE

SECTION IX – USER RESPONSIBILITY

An MSDS such as this cannot be expected to cover all possible individual situations. The user has the responsibility to provide a safe workplace and a safe place of business. All aspects of an individual operation should be examined to determine if, or where precautions -- in addition to those described herein -- are required. Any health hazard information contained herein should be passed on to your employees in accordance with OSHA requirements.

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