



SAFETY DATA SHEET

SECTION 1 - Identification

1.1 Product Identifier

Product Name • Flexible Polyurethane Foam
Synonyms • Foam

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use • Comfort Cushioning Applications

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer • Carpenter Co.
5016 Monument Ave.
Richmond, Virginia 23230
(804) 233-0606
sdsrequest@carpenter.com

SECTION 2 - Hazards Identification

2.1 Classification of the Substance or Mixture

Flexible polyurethane foam is an “article”, not a chemical, as defined in 29 CFR 1910.1200(c). Under normal conditions of use, this product, in the form in which it is shipped, does not pose a physical hazard or health risk and does not require a Safety Data Sheet. Because the foam may become hazardous through downstream activities (e.g. processing, cutting) that may generate dust, as a service to our customers, Carpenter Co. has provided this Safety Data Sheet.

2.2 GHS Label Element

Not applicable.

2.3 Other Hazards

If small particles are generated during further processing, handling or by other means, polyurethane foam may form combustible dust concentrations in air.

SECTION 3 - Composition/Information on Ingredients

Flexible polyurethane foam is an “article”, not a chemical, as defined in 29 CFR 1910.1200(c). Therefore, it does not meet the criteria of a substance or mixture.

SECTION 4 - First Aid Measures

4.1 Description of First Aid Measures

By route of inhalation	• Immediately call a poison center or physician if persistent coughing, discomfort, or obstruction of air passage occurs.
By route of dermal contact	• Wash skin with soap and water.
By route of eye contact	• Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a physician.
By route of ingestion	• No data available.

SECTION 5 - Firefighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media	• Dry chemical, foam, carbon dioxide, water fog or fine spray.
Unsuitable Extinguishing Media	• No data available.

5.2 Special Hazards Arising From the Substance or Mixture

- Urethane foam will burn if exposed to an open flame or other sufficient heat source.
- Once ignited, urethane foam will burn rapidly, releasing great heat 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. Hazardous gases released by the burning foam can be incapacitating or fatal to human beings if inhaled in sufficient quantities.
- Urethane foam is difficult to extinguish. Foam fires that appear to be extinguished may smolder and re-ignite. Always have fire officials determine whether a fire has been extinguished.
- Piles of foam dust can be readily ignited and presents a potential fire hazard. High concentrations of foam dust in the air can be a potential explosion hazard if exposed to flame, sparks, or other ignitions sources.

5.3 Special Protective Actions for Firefighters

- Responding personnel must wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing.

SECTION 6 - Accidental Release Measures

- Refer to Section 8 for exposure control and personal protective equipment information.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

- Keep away from heat and ignition sources.
- Minimize dust generation and accumulation.
- No open flames, no sparks and no smoking.
- Do not allow cuttings or foam scrap to accumulate.
- Do not eat, drink or smoke in working area.
- Routine housekeeping should be instituted to ensure that dust does not accumulate on surfaces.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Storage	• Maintain adequate sprinkler protection where large volumes of foam are kept. Check for compliance with insurance regulations, local building codes or other legal requirements. Maintain aisle space to permit access for fire-fighting equipment and personnel to all foam storage areas.
Incompatibilities	• Keep away from ignition sources. Smoking should be forbidden in areas where material is stored or processed.
Other Information	• Be aware that terms sometimes used to describe polyurethane foam, like "fire retardant" and "flame resistant", do not mean fire safety under all conditions. Flammability ratings from small-scale laboratory tests are not to be taken as an indication of the materials' behavior under actual fire conditions.

SECTION 8: Exposure Controls/ Personal Protection

8.1 Control Parameters

Exposure Limits/Guidelines	• OSHA has established PEL values of 15 milligrams per cubic meters (mg/m³) for total dust and 5 mg/m³ of respirable dust (8-hour TWA) for such particulates not otherwise regulated (PNOR).
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8.2 Exposure Controls

Engineering Controls	• Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is not leakage from the equipment). It is recommended that dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.
Eye/Face Protection	• Safety glasses with side shields.
Respiratory Protection	• None required under normal use. If dust, fume or vapor concentrations may exceed acceptable guidelines, implement a respiratory protection program in accordance with OSHA's 29 CFR 1910.134 respiratory protection standard.
Skin Protection	• Wear suitable working clothes. Long sleeves are recommended if arms are repeatedly rubbed against foam.

Additional Protection Measures

• Use near eyewash station and safety shower.

SECTION 9: Physical and Chemical Properties**9.1 Information on Physical and Chemical Properties**

Material Description			
Physical Form	• Solid	Odor	• Low odor
Appearance	• No data available	Odor Threshold	• No data available
Color	• Varied		
General Properties			
Boiling Point	• No data available	Melting Point	• No data available
Decomposition Temperature	• No data available	pH	• No data available
Density	• 1 to 10 lb(s)/ft ³	Water Solubility	• Low
Solvent Solubility	• No data available	Viscosity	• No data available
Explosive Properties	• No data available	Oxidizing Properties	• No data available
Decomposition Temperature	• No data available	Specific Gravity/Relative Density	• No data available
Volatility			
Vapor Pressure	• No data available	Vapor Density	• No data available
Evaporation Rate	• No data available	VOC (Vol.)	• No data available
Volatiles (Vol.)	• No data available		
Flammability			
Flash Point	• No data available	LEL	• No data available
UEL	• No data available	Flammability (solid, gas)	• WILL BURN IN FIRE
Auto-ignition Temperature	• >= 600°F		
Environmental			
Octanol/Water Partition Coefficient	• No data available		

9.2. Other Information

No additional information available

SECTION 10: Stability and Reactivity**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

10.2 Chemical Stability

Unprotected foam will discolor in the presence of UV light with little effect on physical properties.
Solvent resistance will vary with solvent type.

10.3 Possibility of Hazardous Reactions

No data available.

10.4 Conditions to Avoid

Prolonged exposure to temperatures in excess of 240 degrees Fahrenheit may cause some loss of volatile components. Do not expose urethane foam to open flames or any other direct or indirect high temperature ignition sources such as burning operations, welding, space heaters or naked lights.

10.5 Incompatible Materials

No data available.

10.6 Hazardous Decomposition Products

No data available.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

Most likely route of exposure is skin.

Acute Toxicity

	LD ₅₀ oral rat	LD ₅₀ dermal rabbit	LC ₅₀ inhalation rat
Foam	>5,000 mg/kg	No data available	No data available

- Not classified.

Skin Corrosion/Irritation

- No data available

Serious Eye Damage/Irritation

- No data available

Respiratory or Skin Sensitization

- No data available

Germ Cell Mutagenicity

- No data available

Carcinogenicity

- This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, OSHA or NTP.

Reproductive Toxicity

- Not applicable

Specific Target Organ Toxicity (single exposure)

- No data available

Specific Target Organ Toxicity (repeated exposure)

- No data available

Aspiration Hazard

- No data available

11.2 Potential Health Effects

Inhalation

- | | |
|---------|--|
| Acute | <ul style="list-style-type: none">• Foam dust generated from such operations as continuous processing or cutting can create nuisance particulates, which can cause irritation to the respiratory tract or even lung infection, airway obstruction or fibrosis. |
| Chronic | <ul style="list-style-type: none">• None known. |

Skin

- | | |
|---------|---|
| Acute | <ul style="list-style-type: none">• Under normal conditions of use, no health effects are expected. |
| Chronic | <ul style="list-style-type: none">• None known. |

Eye

- | | |
|---------|---|
| Acute | <ul style="list-style-type: none">• Foam dust can cause eye irritation. |
| Chronic | <ul style="list-style-type: none">• None known. |

Ingestion

- | | |
|---------|---|
| Acute | <ul style="list-style-type: none">• Under normal conditions of use, no health effects are expected. |
| Chronic | <ul style="list-style-type: none">• None known. |

SECTION 12: Ecological Information

12.1 Ecotoxicity

No data available

12.2 Persistence and Degradability

No data available

12.3 Bioaccumulative Potential

No data available

12.4 Mobility in Soil

No data available

12.5 Other Adverse Effects

No data available

SECTION 13: Disposal Considerations

13.1 Waste Disposal Method

Product Waste

- Do not dump into any sewers, on the ground, or into any body of water.
- All disposal methods must be in compliance with Federal, State/Provincial, and local regulations.

Packaging Waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport Information

U.S. DOT/IATA/IMDG

Not regulated as hazardous for shipment.

SECTION 15: Regulatory Information

15.1 Regulatory Status

CERCLA Hazardous Substances (40 CFR 302): None reportable.

SARA 311/312: None reportable.

SARA 313: None reportable.

15.2 US State Regulations

STATE RIGHT-TO-KNOW: To the best of our knowledge, this product contains no chemical known to the State of California to cause cancer, birth defects, or other reproductive harm. (California Health and Safety Code Section 25249.6).

15.3 International Inventories*

United States: All components of this product are listed on the TSCA inventory.

SECTION 16: Other Information

16.1 HMIS and NFPA RATINGS

Not applicable.

16.2 EU CLP Relevant Phrases

Not classified.

16.3 Preparation By

Product Stewardship

16.4 Preparation Date

April 16, 2012

16.5 Last Revision Date

April 15, 2024

16.6 Disclaimer/Statement of Liability

The data in this Safety Data Sheet are offered for your consideration, investigation and verification. The data are presented in good faith and was obtained from sources Carpenter believes to be reliable. Carpenter, however, makes no representation as to the completeness or accuracy. Carpenter makes no

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