

# MATERIAL SAFETY DATA SHEET



Bayer MaterialScience

**Bayer MaterialScience LLC**  
Product Safety & Regulatory Affairs  
100 Bayer Road  
Pittsburgh, PA 15205-9741  
USA

## TRANSPORTATION EMERGENCY

CALL CHEMTREC: (800) 424-9300  
INTERNATIONAL: (703) 527-3887

## NON-TRANSPORTATION

Bayer Emergency Phone: (412) 923-1800  
Bayer Information Phone: (800) 662-2927

## 1. Product and Company Identification

**Product Name:** RIGID POLYURETHANE/POLYISOCYANURATE FOAM  
**Material Number:** 4327792  
**Chemical Family:** Polyurethane/Polyisocyanurate Foam

## 2. Hazards Identification

### Emergency Overview

**Color:** Characteristic **Form:** solid **Odor:** Characteristic.  
May cause mechanical irritation. Irritating gases/fumes may be given off during burning or thermal decomposition. Product may melt after ignition to form flammable liquids.

### Potential Health Effects

**Primary Routes of Entry:** Inhalation, Skin Contact, Eye Contact, Ingestion

**Medical Conditions Aggravated by Exposure:** Respiratory disorders

### HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

#### Skin

##### Acute Skin

**For Product: RIGID POLYURETHANE/POLYISOCYANURATE FOAM**

Contact with moist skin may produce some very slight irritation due to alkalinity and/or mechanical irritation.

#### Eye

##### Acute Eye

**For Product: RIGID POLYURETHANE/POLYISOCYANURATE FOAM**

Dust may cause mechanical irritation.

#### General Effects of Exposure

##### Chronic Effects of Exposure

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Repeated or prolonged eye and/or skin contact with the dust generated from foam when cutting or molding may produce a dehydrating effect.

**Carcinogenicity:**

No Carcinogenic substances as defined by IARC, NTP and/or OSHA

**3. Composition/Information on Ingredients**

**Hazardous Components**

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

**4. First Aid Measures**

**Eye Contact**

In case of contact with the dust from this product, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.

**Skin Contact**

Get medical attention if irritation develops.

**Inhalation**

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. Get medical attention if irritation develops.

**Ingestion**

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

**5. Fire-Fighting Measures**

**Suitable Extinguishing Media:** water, foam, dry chemical, carbon dioxide (CO<sub>2</sub>)

**Special Fire Fighting Procedures**

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

**Unusual Fire/Explosion Hazards**

Product may melt after ignition to form flammable liquids.

**6. Accidental release measures**

**Spill and Leak Procedures**

Remove mechanically by a method that minimizes the generation of airborne dust (vacuum cleaner, wet mopping, etc.) Do not use compressed air for cleaning.

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## 7. Handling and Storage

### Handling/Storage Precautions

Avoid creating dust. Wash thoroughly after handling.

### Further Info on Storage Conditions

Keep away from heat, sparks and open flames.

## 8. Exposure Controls / Personal Protection

Country specific exposure limits have not been established or are not applicable

### Industrial Hygiene/Ventilation Measures

None required under normal conditions of use. During grinding or sanding, local exhaust ventilation should be used to maintain the dust levels below the exposure limit for nuisance particulates. If this product is heated, local exhaust ventilation must be used to maintain airborne levels below exposure limits for isocyanate vapors, amine vapors, or other decomposition products that may be present.

### Respiratory Protection

None required under normal conditions of use., During grinding or sanding of this product, a particulate respirator may be used to control nuisance dust. Any time nuisance dust standards are exceeded a particulate respirator is required. When product is heated, local exhaust ventilation must be used to maintain airborne levels below exposure limits for isocyanate vapors, amine vapors, or other decomposition products that may be present. A supplied air respirator (either positive pressure or continuous flow type) is required if decomposition products are detected above their exposure limits.

### Hand Protection

Canvas or cloth gloves

### Eye Protection

safety glasses with side-shields.

### Skin and body protection

No special skin protection requirements during normal handling and use.

### Additional Protective Measures

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product.

## 9. Physical and chemical properties

<b>Form:</b>	solid
<b>Color:</b>	Characteristic
<b>Odor:</b>	Characteristic
<b>pH:</b>	Not Applicable
<b>Melting Point:</b>	Not Established
<b>Boiling Point/Range:</b>	Not Applicable
<b>Flash Point:</b>	not applicable
<b>Lower Explosion Limit:</b>	Not Established

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**Upper Explosion Limit:** Not Established  
**Solubility in Water:** Insoluble

## 10. Stability and Reactivity

### Hazardous Reactions

Hazardous polymerization does not occur.

### Stability

Stable

### Materials to avoid

None known.

### Conditions to avoid

None known.

### Hazardous decomposition products

By Fire and Thermal Decomposition: hydrocarbons, Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke, depending upon product formulation may contain trace amounts of diphenylmethane diisocyanate (MDI), NO<sub>2</sub> and hydrogen cyanide.

## 11. Toxicological Information

No information available.

## 12. Ecological Information

No information available.

## 13. Disposal considerations

### Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

## 14. Transportation information

### Land transport (DOT)

Non-Regulated

### Sea transport (IMDG)

Non-Regulated

### Air transport (ICAO/IATA)

Non-Regulated

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## 15. Regulatory Information

### United States Federal Regulations

**OSHA Hazcom Standard Rating:** Non-Hazardous

**US. Toxic Substances Control Act:** Excluded: Article.

**US. EPA CERCLA Hazardous Substances (40 CFR 302):**

#### Components

None

**SARA Section 311/312 Hazard Categories:**

Non-hazardous under Section 311/312

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):**

#### Components

None

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:**

#### Components

None

**US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):**

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

### State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:**

#### Weight %

100%

#### Components

Polyurethane/Polyisocyanurate Foam

#### CAS-No.

**California Prop. 65:**

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

## 16. Other Information

### NEPA 704M Rating

<b>Health</b>	0
<b>Flammability</b>	1

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<b>Reactivity</b>	0
<b>Other</b>	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

**HMIS Rating**

<b>Health</b>	0
<b>Flammability</b>	1
<b>Physical Hazard</b>	0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

\* = Chronic Health Hazard

The method of hazard communication for Bayer MaterialScience LLC is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by Bayer MaterialScience LLC as a customer service.

Contact Person: Product Safety Department  
 Telephone: (412) 777-2835  
 MSDS Number: 00000005245  
 Version Date: 05/04/2007  
 Report Version: 1.4

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