

# Safety Data Sheet

## ULTRAMID® 8260HS BK102 POLYAMIDE

Revision date : 2010/10/05

Version: 1.0

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(30215447/SDS\_GEN\_US/EN)

### 1. Product and Company Identification

Use: Polymer

Company

BASF CORPORATION  
100 Campus Drive  
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP

Chemical family:

polyamide

Synonyms:

POLYAMIDE RESIN

### 2. Hazards Identification

Emergency overview**CAUTION:**

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
INGESTION MAY CAUSE GASTRIC DISTURBANCES.

Use with local exhaust ventilation.

Wear a NIOSH-certified (or equivalent) particulate respirator.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

State of matter: solid

Colour: various, depending on the colourant

Odour: odourless

Potential health effects**Primary routes of exposure:**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

**Acute toxicity:**

Contact with molten product may cause thermal burns. The resin in pelleted form poses a low hazard.

**Irritation / corrosion:**

Irritation is possible when the product comes in contact with the skin, respiratory tract or the eyes.

**Sensitization:**

The substance is inert.

**Chronic toxicity:**

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**Repeated dose toxicity:** No adverse effects have been reported in the processing and use of the product. No known chronic effects.

**Genotoxicity:** The substance is inert.

**Medical conditions aggravated by overexposure:**

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See MSDS section 11 - Toxicological information.

**Potential environmental effects**

**Aquatic toxicity:**

The product has not been tested. The statement has been derived from the structure of the product. There is a high probability that the product is not acutely harmful to aquatic organisms.

**Degradation / environmental fate:**

Experience shows this product to be inert and non-degradable.

### 3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
25038-54-4	> 50.0 - < 70.0 %	polyamide (PA 6)
	> 30.0 - < 50.0 %	Proprietary
1333-86-4	< 0.5 %	carbon black

### 4. First-Aid Measures

**General advice:**

Remove contaminated clothing.

**If inhaled:**

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

**If on skin:**

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

**If in eyes:**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

**If swallowed:**

Ingestion is not likely in the available physical form. If ingested, seek medical attention.

### 5. Fire-Fighting Measures

Flash point: > 400 °C (Unspecified)  
Self-ignition temperature: not self-igniting

**Suitable extinguishing media:**

water spray, dry powder, carbon dioxide, foam

**Hazards during fire-fighting:**

No particular hazards known.



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### **Protective equipment for fire-fighting:**

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

## 6. Accidental release measures

### **Environmental precautions:**

This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

### **Cleanup:**

Reclaim for processing if possible. Sweep/shovel up. Place into suitable containers for reuse or disposal in a licensed facility.

## 7. Handling and Storage

### **Handling**

#### **Protection against fire and explosion:**

No explosion proofing necessary.

### **Storage**

#### **General advice:**

Keep container tightly closed. Avoid deposition of dust.

#### **Storage stability:**

Protect against moisture.

## 8. Exposure Controls and Personal Protection

### **Components with workplace control parameters**

caprolactam

	ACGIH	TWA value	5 mg/m3	Inhalable fraction and vapor ;
carbon black	OSHA	PEL	3.5 mg/m3 ;	
	ACGIH	TWA value	3.5 mg/m3 ;	

### **Advice on system design:**

Provide local exhaust ventilation to control dusts/vapours.

### **Personal protective equipment**

#### **Respiratory protection:**

Wear a NIOSH-certified (or equivalent) particulate respirator. Wear respiratory protection if ventilation is inadequate.

#### **Hand protection:**

Wear gloves to prevent contact during mechanical processing and/or hot melt conditions.

#### **Eye protection:**

Tightly fitting safety goggles (chemical goggles).

#### **General safety and hygiene measures:**

Wear protective clothing to prevent contact during mechanical processing and/or hot melt conditions. Avoid inhalation of dust. Wash soiled clothing immediately.

## 9. Physical and Chemical Properties

Form: pellets



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Odour:	odourless	
Colour:	various, depending on the colourant	
pH value:		not applicable
Melting temperature:	approx. 220 °C	(DIN 53765)
Boiling range:		The substance / product decomposes therefore not determined.
Vapour pressure:		not applicable
Relative density:	1.05 - 1.25	
Bulk density:	500 - 800 kg/m <sup>3</sup>	
Solubility in water:		insoluble

### 10. Stability and Reactivity

#### Conditions to avoid:

Avoid prolonged exposure to extreme heat.

#### Substances to avoid:

strong oxidizing agents, acids, bases

#### Hazardous reactions:

The product is chemically stable.

#### Decomposition products:

Possible thermal decomposition products:  
hydrogen cyanide, carbon monoxide, ammonia

#### Thermal decomposition:

> 300 °C

May decompose if overheated and/or subjected to prolonged heating.

#### Corrosion to metals:

No corrosive effect on metal.

### 11. Toxicological information

#### Acute toxicity

*Information on: caprolactam*

*Assessment of acute toxicity:*

*Of moderate toxicity after short-term inhalation. Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact.*

#### Irritation / corrosion

*Information on: caprolactam*

*Assessment of irritating effects:*

*Irritating to eyes and skin.*

#### Repeated dose toxicity

*Information on: caprolactam*

*Assessment of repeated dose toxicity:*

*After repeated exposure the prominent effect is local irritation.*

#### Other Information:



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Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

### 12. Ecological Information

#### Bioaccumulation

The product will not be readily bioavailable due to its consistency and insolubility in water.

### 13. Disposal considerations

#### Waste disposal of substance:

Incinerate in a licensed facility. Do not discharge substance/product into sewer system.

#### Container disposal:

Dispose of in accordance with national, state and local regulations.

### 14. Transport Information

#### Land transport USDOT

Not classified as a dangerous good under transport regulations

#### Sea transport IMDG

Not classified as a dangerous good under transport regulations

#### Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Chemical TSCA, US released / listed

##### EPCRA 311/312 (Hazard categories):

Not hazardous;

#### State regulations

State RTK  
MA, NJ, PA

CAS Number  
1333-86-4

Chemical name  
carbon black



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### 16. Other Information

#### HMIS III rating

Health: 1      Flammability: 1      Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

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#### MSDS Prepared by:

BASF NA Product Regulations  
msds@basf.com  
MSDS Prepared on: 2010/10/05

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