

# Safety data sheet

## ULTRAMID® 8350HS BK102 POLYAMIDE

Revision date : 2009/07/10

Version: 1.0

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(30215465/SDS\_GEN\_US/EN)

### 1. Substance/preparation and company identification

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. Composition/information on ingredients

CAS Number

25038-54-4

28516-43-0

105-60-2

1333-86-4

Content (W/W)

&gt; 60.0 - &lt; 80.0 %

&gt; 10.0 - &lt; 30.0 %

&lt; 1.0 %

&lt; 1.0 %

Chemical name

polyamide (PA 6)

2-Propenoic acid, 2-methyl-, polymer with ethene, zinc salt

caprolactam

carbon black

### 3. Hazard 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.

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:**

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

**Sensitization:**

No data available concerning sensitizing effects. provisional classification.

**Repeated dose toxicity:**

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No adverse effects have been reported in the processing and use of the product. No known chronic effects.

*Information on: Carbon black*

*Prolonged inhalation exposures may produce cough, phlegm, tiredness, chest pain and headache.*

*Chronic exposures have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease).*

*Information on: Caprolactam*

*May affect the liver and kidneys as indicated in animal studies.*

### **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.

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## 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.

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## 5. Fire-fighting measures

Flash point:

> 400 °C

(Unspecified)

Autoignition:

No data available.

Self-ignition temperature:

not self-igniting

### **Suitable extinguishing media:**

water, dry extinguishing media, carbon dioxide, foam

### **Hazards during fire-fighting:**

No particular hazards known.

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

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



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### 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. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

##### 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

Odour:

odourless



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Colour:	black	
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/m3	
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

**Chronic toxicity**

**Genetic toxicity:**

No data available concerning mutagenic effects.  
provisional classification.

### 12. Ecological information

**Environmental fate and transport**

**Biodegradation:**

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

### 13. Disposal considerations

**Waste disposal of substance:**

Incinerate in a licensed facility.

Do not discharge substance/product into sewer system.



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### 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:

TSCA, US

released / listed

#### CERCLA RQ

1000 LBS

#### CAS Number

140-88-5

#### Chemical name

ethyl acrylate

**SARA hazard categories (EPCRA 311/312):** Not hazardous

### State regulations

#### State RTK

#### CAS Number

28516-43-0

105-60-2

1333-86-4

#### Chemical name

2-Propenoic acid, 2-methyl-, polymer with ethene, zinc salt

caprolactam

carbon black

#### State RTK

NJ

MA, NJ, PA

MA, NJ, PA

#### CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

## 16. Other information

### HMIS III rating

Health: 1

Flammability: 1

Physical hazard: 0

HMIS uses 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 high hazard.



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### Local contact information

Tech Desk

1-800-527-8324

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