

## Safety data sheet

### ULTRAMID® 8267GHS BK106 POLYAMIDE

Revision date : 2004/01/05  
Version: 1.0

Page: 1/5  
(30215448/MDS\_GEN\_US/EN)

## 1. Substance/preparation and company identification

Company  
BASF CORPORATION  
100 Campus Drive  
Florham Park, NJ 07932

24 Hour Emergency Response Information  
CHEMTRIC: (800) 424-9300  
BASF HOTLINE: (800) 832-HELP

Chemical family: polyamide  
Synonyms: POLYAMIDE RESIN

## 2. Composition/information on ingredients

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u>   |
|-------------------|----------------------|--|
| 65997-17-3        | >= 7.0 - <= 15.0 %   | Glass, oxide, chemicals  |
| 1333-86-4         | >= 0.1 - <= 2.0 %    | carbon black   |
| 7758-02-3         | >= 0.1 - <= 1.0 %    | Potassium bromide (KBr)  |
| 105-60-2          | < 1.0 %              | caprolactam  |
| 25038-54-4        | > 42.0 %             | polyamide (PA 6)<br>Particles, not otherwise specified, respirable |

## 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.

*Information on: Caprolactam*

*No adverse effects have been reported in the processing and use of polycaprolactam.  
Caprolactam monomer may be released during processing.*

#### **Irritation:**

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

#### **Repeated dose toxicity:**

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



## Safety data sheet

### ULTRAMID® 8267GHS BK106 POLYAMIDE

Revision date : 2004/01/05

Version: 1.0

Page: 2/5

(30215448/MDS\_GEN\_US/EN)

#### Information on: Carbon black

Prolonged inhalation exposures may produce cough, phlegm, tiredness, chest pain and headache. Dermal, inhalation or mucosal exposures may cause irritation. Chronic exposures to carbon black have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease) in workers. IARC has classified carbon black in Group 2B (sufficient evidence of carcinogenicity in animals).

#### Information on: Fiberglass

This product contains glass fibers which are compounded into the polymer matrix and thus are not expected to present the same hazards as fiberglass wool.

#### Information on: Fiberglass

Animal implantation studies have indicated that fiberglass wool is an animal carcinogen. A small study of Canadian glass wool workers reported a statistically significant increase in deaths due to lung cancer; however, animal inhalation studies and several large-scale studies of U.S. and European fiberglass wool workers have shown no statistically significant increases in lung cancer. The International Agency for Research on Cancer (IARC) has classified this material in Category 2B.

#### Information on: Fiberglass

These findings are based on glass wool, which has a smaller diameter than continuous glass filament or glass fiber chopped strands or rovings. Fiberglass wool is not used in this product.

#### Information on: Caprolactam

Animal studies indicate that caprolactam may affect the liver and kidneys.

#### 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 Section 11 - Toxicological information.

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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.

#### Suitable extinguishing media:

water, dry extinguishing media, carbon dioxide, foam

#### Hazards during fire-fighting:



## Safety data sheet

### ULTRAMID® 8267GHS BK106 POLYAMIDE

Revision date : 2004/01/05

Version: 1.0

Page: 3/5

(30215448/MDS\_GEN\_US/EN)

No particular hazards known.

**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**

|  |               |  |
|--|---------------|--|
| carbon black                                   | OSHA<br>ACGIH | PEL 3.5 mg/m <sup>3</sup> ;<br>TWA value 3.5 mg/m <sup>3</sup> ;                                       |
| caprolactam                                    | ACGIH         | TWA value 5 mg/m <sup>3</sup> Vapor and aerosol, inhalable fraction ;                                  |
| Particles, not otherwise specified, respirable | OSHA<br>ACGIH | PEL 5 mg/m <sup>3</sup> Respirable fraction ; Respirable fraction ;<br>TWA value 3 mg/m <sup>3</sup> ; |

**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.



## Safety data sheet

### ULTRAMID® 8267GHS BK106 POLYAMIDE

Revision date : 2004/01/05

Version: 1.0

Page: 4/5

(30215448/MDS\_GEN\_US/EN)

**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   |
| Colour:           | black       |
| pH value:         |             |
| Relative density: | 1.05 - 1.25 |

No data available.

## 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

## 12. Ecological information

## 13. Disposal considerations

**Waste disposal of substance:**

Incinerate in a licensed facility.

Do not discharge substance/product into sewer system.

**Contaminated packaging:**

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



## Safety data sheet

### ULTRAMID® 8267GHS BK106 POLYAMIDE

Revision date : 2004/01/05  
Version: 1.0

Page: 5/5  
(30215448/MDS\_GEN\_US/EN)

## 14. Transport information

Reference Bill of Lading

## 15. Regulatory information

### Federal Regulations

**Registration status:**  
TSCA, US

released / listed

### State regulations

#### State RTK

| <b>CAS Number</b> | <b>Chemical name</b> | <b>State RTK</b> |
|-------------------|----------------------|------------------|
| 1333-86-4         | carbon black         | MA, NJ, PA       |
| 105-60-2          | caprolactam          | MA, NJ, PA       |

## 16. Other information

### **HMIS III rating**

Health: 0      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.

### **Local contact information**

Tech Desk  
1-800-527-8324

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