



The Chemical Company

## Safety Data Sheet

### ULTRAMID® B3GM35 BLACK Q642 23220 POLYAMIDE

Revision date : 2010/03/15

Version: 1.0

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(30131267/SDS\_GEN\_US/EN)

## 1. Product 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

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Synonyms: POLYCAPROLACTAM POLYAMIDE 6

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## 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 NIOSH-certified chemical goggles.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

State of matter: solid

Colour: black

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.

Thermal decomposition products of the substance can irritate the eyes, skin, and respiratory tract.

#### **Sensitization:**

The substance is inert.

#### **Chronic toxicity:**

**Genotoxicity:** The substance is inert.



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### 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.

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### 3. Composition / Information on Ingredients

<b>CAS Number</b>	<b>Content (W/W)</b>	<b>Chemical name</b>
25038-54-4	> 45.0 - < 65.0 %	polyamide (PA 6)
65997-17-3	> 0.5 - < 25.0 %	Glass, oxide, chemicals
1333-86-4	> 1.0 - < 3.0 %	carbon black
105-60-2	> 0.1 - < 0.5 %	caprolactam

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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.

#### **Further information:**

Do not allow to enter drains or waterways. Notify proper authorities.



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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.

#### **Further information:**

None known if product is used according to recommendations.

### 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

#### **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
Odour:	odourless
Colour:	black
pH value:	not applicable
Melting temperature:	approx. 220 °C (DIN 53765)
Boiling range:	The substance / product decomposes therefore not determined.



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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.

### Hazardous reactions:

The product is chemically stable.

### Decomposition products:

hydrogen cyanide, carbon monoxide, ammonia

### Thermal decomposition:

> 300 °C

### 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.

### Carcinogenicity

Information on: Glass, oxide, chemicals

IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

### Other Information:

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





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### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
MA, NJ, PA	65997-17-3	Glass, oxide, chemicals
MA, NJ, PA	1333-86-4	carbon black
MA, NJ, PA	105-60-2	caprolactam

### 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

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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### Local Contact Information

Tech Desk

+1 800 5278324

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