

# Safety Data Sheet

## ULTRAMID® B3Z BLACK 30464 POLYAMIDE

Revision date : 2013/05/16

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Version: 1.0

(30063888/SDS\_GEN\_US/EN)

### 1. Product and Company Identification

**Company**

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

**24 Hour Emergency Response Information**

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

Molecular formula:

(C6 H11 NO)N

Synonyms:

Polycaprolactam; Polyamide-6; Nylon 6

### 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: 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:**

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

**Chronic toxicity:**

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

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

**Signs and symptoms of overexposure:**

No significant reaction of the human body to the product known.

No hazard is expected under intended use and appropriate handling.

**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:**

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

### 3. Composition / Information on Ingredients

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u>                                                       |
|-------------------|----------------------|----------------------------------------------------------------------------|
| 25038-54-4        | >= 70.0 - <= 90.0 %  | polyamide (PA 6)                                                           |
| 25038-36-2        | >= 15.0 - <= 30.0 %  | Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene |
| 1333-86-4         | >= 0.1 - < 1.0 %     | 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:**

Burns caused by molten material require hospital treatment.

**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:               |                   | not applicable                                                |
| Autoignition:              | > 400 °C          | (ASTM D1929)                                                  |
| Lower explosion limit:     |                   | The substance / product decomposes therefore not determined.  |
| :                          |                   | not applicable, the product does not form flammable aerosols) |
| Flammability:              | not self-igniting |                                                               |
| Self-ignition temperature: |                   | not self-igniting                                             |



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### **Suitable extinguishing media:**

water spray, foam, dry powder

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

Ammonium hydroxide, carbon monoxide, carbon dioxide, caprolactam, hydrogen cyanide, nitriles can be emitted at > 320 °C

Under special fire conditions traces of other toxic substances are possible. Formation of further decomposition and oxidation products depends upon the fire conditions.

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

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

### **Further information:**

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## 6. Accidental release measures

### **Personal precautions:**

No special precautions necessary.

### **Environmental precautions:**

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

### **Cleanup:**

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Pick up with suitable appliance and dispose of.

### **Further information:**

High risk of slipping due to leakage/spillage of product.

## 7. Handling and Storage

### **Handling**

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

Take precautionary measures against static discharges.

### **Storage**

#### **General advice:**

Keep container tightly closed. Avoid deposition of dust. Protect against moisture.

#### **Storage stability:**

Protect against moisture.

## 8. Exposure Controls and Personal Protection

### **Components with occupational exposure limits**

|              |       |                       |
|--------------|-------|-----------------------|
| 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.



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### 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).

#### **Body protection:**

Body protection must be chosen based on level of activity and exposure.

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

Avoid inhalation of dust. Wash soiled clothing immediately.

## 9. Physical and Chemical Properties

|                                                     |                                     |                                                              |
|-----------------------------------------------------|-------------------------------------|--------------------------------------------------------------|
| Form:                                               | pellets                             |                                                              |
| 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                                               |
| Density:                                            | 1.00 - 1.20 g/cm3                   | ( 20 °C) (EN ISO 1183-1)                                     |
| Relative density:                                   |                                     | No data available.                                           |
| Bulk density:                                       | 500 - 800 kg/m3                     |                                                              |
| Vapour density:                                     |                                     | not applicable                                               |
| Partitioning coefficient n-octanol/water (log Pow): |                                     | not applicable                                               |
| Viscosity, kinematic:                               |                                     | not applicable, the product is a solid                       |
| Solubility in water:                                |                                     | insoluble                                                    |

## 10. Stability and Reactivity

#### **Conditions to avoid:**

Temperature: > 320 degrees Celsius

#### **Substances to avoid:**

No substances known that should be avoided.

#### **Decomposition products:**

Hazardous decomposition products: Ammonium hydroxide, carbon monoxide, carbon dioxide, caprolactam, hydrogen cyanide, nitriles

#### **Thermal decomposition:**

> 320 °C (TGA)

## 11. Toxicological information

#### **Acute toxicity**

Information on: Caprolactam



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*Information on: Caprolactam*

### Repeated dose toxicity

*Information on: Carbon black*

*Assessment of repeated dose toxicity:*

*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).*

### Carcinogenicity

*Information on: carbon black*

*IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term animal studies in which the substance was given by inhalation in high concentrations, a carcinogenic effect was observed. A clear indication of an increased risk of cancer in humans has so far not been shown. No carcinogenic potential can be deduced from other studies with rats and mice.*

### Aspiration Hazard:

No aspiration hazard expected.

### 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.

## 12. Ecological Information

### Degradability / Persistence

#### Biological / Abiological Degradation

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

### Bioaccumulation

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

## 13. Disposal considerations

### Waste disposal of substance:

Check for possible recycling. Incinerate in suitable incineration plant, observing local authority regulations.

### Container disposal:

Packs must be completely emptied. Completely emptied packagings can be given for recycling.

## 14. Transport Information

### Land transport

USDOT



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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

#### CA Prop. 65:

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

## 16. Other Information

Recommended use: Polymer for industrial processing only  
Suitable for use in industrial sector: Polymers industry;

#### NFPA Hazard codes:

Health : 1 Fire: 1 Reactivity: 0 Special:

#### 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.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

SDS Prepared by:



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BASF NA Product Regulations

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