

## Safety data sheet

### ULTRAMID® B3L BLACK 00464 POLYAMIDE

Revision date : 2006/08/02

Version: 1.0

Page: 1/5

(30045425/MDS\_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

Molecular formula: (C<sub>6</sub> H<sub>11</sub> NO)<sub>n</sub>  
Synonyms: Polycaprolactam; Polyamide-6; Nylon 6

## 2. Composition/information on ingredients

CAS Number	Content (W/W)	Chemical name
25038-54-4	= 80.0 - <= 100.0 %	polyamide (PA 6)
1333-86-4	<= 1.0 %	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 NIOSH-certified chemical goggles.  
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.

*Information on: Caprolactam*

*No adverse effects have been reported in the processing and use of polycaprolactam.  
The OSHA TWA and the ACGIH TLV for Caprolactam vapor are 5 ppm.*

#### **Irritation:**

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

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



# Safety data sheet

## ULTRAMID® B3L BLACK 00464 POLYAMIDE

Revision date : 2006/08/02

Version: 1.0

Page: 2/5

(30045425/MDS\_GEN\_US/EN)

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

*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).*

---

## 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:

> 400 °C

(Unspecified)

Autoignition:

> 400 °C

(ASTM D1929)

### **Suitable extinguishing media:**

water, foam, dry extinguishing media

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

carbon monoxide, hydrogen cyanide, can be emitted at > 300 °C

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

### **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

### **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.



# Safety data sheet

## ULTRAMID® B3L BLACK 00464 POLYAMIDE

Revision date : 2006/08/02

Version: 1.0

Page: 3/5

(30045425/MDS\_GEN\_US/EN)

### 7. Handling and storage

#### Handling

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

Take precautionary measures against static discharges.

#### Storage

##### **General advice:**

Keep container tightly closed.

### 8. Exposure controls and personal protection

#### Components with workplace control parameters

carbon black	OSHA	PEL 3.5 mg/m <sup>3</sup> ;
	ACGIH	TWA value 3.5 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.

##### **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:**

Wash soiled clothing immediately.

### 9. Physical and chemical properties

Form:	granules
Odour:	odourless
Colour:	various, depending on the colourant
pH value:	No data available.
Melting temperature:	approx. 220 °C (DIN 53736)
Density:	1.00 - 1.20 g/cm <sup>3</sup> ( 20 °C ) (EN/ISO 1183-1)
Bulk density:	500 - 800 kg/m <sup>3</sup>
Solubility in water:	insoluble

### 10. Stability and reactivity

#### **Decomposition products:**

Hazardous decomposition products: carbon monoxide, hydrogen cyanide

#### **Thermal decomposition:**

> 300 °C



# Safety data sheet

## ULTRAMID® B3L BLACK 00464 POLYAMIDE

Revision date : 2006/08/02

Version: 1.0

Page: 4/5

(30045425/MDS\_GEN\_US/EN)

### 11. Toxicological information

#### Chronic toxicity

#### **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

#### Environmental fate and transport

#### **Biodegradation:**

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.

May be disposed of or combusted with domestic refuse according to local regulations.

#### **Container disposal:**

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

### 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:**



# Safety data sheet

## ULTRAMID® B3L BLACK 00464 POLYAMIDE

Revision date : 2006/08/02

Version: 1.0

Page: 5/5

(30045425/MDS\_GEN\_US/EN)

TSCA, US

released / listed

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

### State regulations

State RTK

**CAS Number**  
1333-86-4

**Chemical name**  
carbon black

**State RTK**  
MA, NJ, PA

## 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.

### **Local contact information**

Tech Desk  
1-800-527-8324

ULTRAMID® B3L BLACK 00464 POLYAMIDE is a registered trademark of BASF Corporation or BASF AG  
IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN  
ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR  
GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE,  
WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR  
YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER  
EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A  
PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR  
INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE  
USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE  
SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A  
PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND  
AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF  
HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE  
DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH  
BEING GIVEN AND ACCEPTED AT YOUR RISK.

END OF DATA SHEET

