

# Safety data sheet

## NYPEL RC6024 BK

Revision date : 2009/06/24  
Version: 1.1

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(30486111/SDS\_GEN\_US/EN)

### 1. Substance/preparation and company identification

Company  
BASF CORPORATION  
100 Campus Drive  
Florham Park, NJ 07932

24 Hour Emergency Response Information  
CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP

Chemical family: polyamide

### 2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
25038-54-4	>= 50.0 - <= 70.0 %	polyamide (PA 6)
65997-17-3	>= 7.0 - <= 15.0 %	Glass, oxide, chemicals
1333-86-4	< 1.0 %	carbon black
105-60-2	< 1.0 %	caprolactam

### 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:**

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.

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### **Repeated dose toxicity:**

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

*Information on: Caprolactam*

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

### **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: > 300 °C

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.

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### 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

Glass, oxide, chemicals	ACGIH	TWA value 5 mg/m3 Inhalable fraction ; TWA value 1 fibers/cm <sup>3</sup> Fiber ; TWA value 1 fibers/cm <sup>3</sup> Fiber ; TWA value 0.2 fibers/cm <sup>3</sup> Fiber ;
carbon black	OSHA ACGIH	PEL 3.5 mg/m3 ; TWA value 3.5 mg/m3 ;
caprolactam	ACGIH	TWA value 5 mg/m3 Inhalable fraction and vapor ;

**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:	solid	
Odour:	odourless	
Colour:	black	
pH value:		not applicable
Melting point:		not applicable
Boiling point:		not applicable
Vapour pressure:		not applicable
Density:		not applicable
Relative density:	1.05 - 1.25	
Bulk density:	500 - 800 kg/m <sup>3</sup>	
Partitioning coefficient n-octanol/water (log Pow):		not applicable

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Solubility in water: insoluble

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### 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.

**Oxidizing properties:**

Not an oxidizer.

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### 11. Toxicological information

**Chronic toxicity**

**Genetic toxicity:**

No data available concerning mutagenic effects.  
provisional classification.

**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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### 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.

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### 13. Disposal considerations

**Waste disposal of substance:**

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Incinerate in a licensed facility.  
Do not discharge substance/product into sewer system.

**Container disposal:**

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

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### 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

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### 15. Regulatory information

**Federal Regulations**

**Registration status:**

TSCA, US released / listed

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

**State regulations**

**State RTK**

**CAS Number**

65997-17-3

1333-86-4

105-60-2

**Chemical name**

Glass, oxide, chemicals

carbon black

caprolactam

**State RTK**

MA, NJ, PA

MA, NJ, PA

MA, NJ, PA

**CA Prop. 65:**

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

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### 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  
800 5278324

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