

# Safety Data Sheet

## ULTRAMID® 8253 POLYAMIDE

Revision date : 2011/05/17  
Version: 1.0

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(30216542/SDS\_GEN\_US/EN)

### 1. Product and Company Identification

Use: Polymer

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: POLYAMIDE RESIN

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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 protective clothing.  
Eye wash fountains and safety showers must be easily accessible.

State of matter: solid  
Colour: opaque  
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:**

The substance is inert.

##### **Chronic toxicity:**



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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.

**Genotoxicity:** The substance is inert.

**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 MSDS section 11 - Toxicological information.

**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

CAS Number	Content (W/W)	Chemical name
25038-54-4	> 75.0 - < 95.0 %	polyamide (PA 6)
9010-86-0	> 5.0 - < 10.0 %	2-Propenoic acid, ethyl ester, polymer with ethene
9010-77-9	> 5.0 - < 10.0 %	2-Propenoic acid polymer with ethene

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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	(closed cup)
Autoignition:		No data available.
Self-ignition temperature:		not self-igniting

**Suitable extinguishing media:**

water spray, dry powder, carbon dioxide, foam

**Hazards during fire-fighting:**

No particular hazards known.



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### 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

caprolactam	ACGIH OSHA	TWA value 5 mg/m <sup>3</sup> Inhalable fraction and vapor ; PEL 5 mg/m <sup>3</sup> Respirable fraction ; All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is the same as the inert or nuisance dust limit of Table Z-3.
Particles, not otherwise specified, respirable	ACGIH	TWA value 3 mg/m <sup>3</sup> Respirable particles ;

#### 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.



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### 9. Physical and Chemical Properties

Form:	pellets	
Odour:	odourless	
Colour:	opaque	
pH value:		not applicable
Melting temperature:	approx. 220 °C	(DIN 53765)
Boiling range:		The substance / product decomposes therefore not determined.
Vapour pressure:		not applicable
Relative density:	1.05 - 1.25	
Bulk density:	500 - 800 kg/m <sup>3</sup>	
Partitioning coefficient		Unspecified
n-octanol/water (log Pow):		
Solubility in water:		insoluble

### 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

**Repeated dose toxicity**

*Information on: Caprolactam*

*Assessment of repeated dose toxicity:*

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

**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

**Bioaccumulation**

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

### 13. Disposal considerations

**Waste disposal of substance:**

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.

### 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:**

Chemical                    TSCA, US                    released / listed

**EPCRA 311/312 (Hazard categories):**                    Not hazardous;

**State regulations**

**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



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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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**MSDS Prepared by:**

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MSDS Prepared on: 2011/05/17

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