BASF
The Chemical Company

Safety data sheet
ULTRAMID® B3ZG3 UNCOLORED POLYAMIDE

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:	(C6H11NO)N
Chemical family:	polyamide
Synonyms:	Polycaprolactam; Polyamide 6

2. Composition/information on ingredients

CAS Number	Content (W/W)	Chemical name
25038-54-4	>= 55.0 %	polyamide (PA 6)
65997-17-3	>= 10.0 - <= 30.0 %	Glass, oxide, chemicals

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. 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.
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:
No known chronic effects. No adverse effects have been reported in the processing and use of the product.
Information on: Fiberglass
This product contains glass fibers which are compounded into the polymer matrix and thus are not expected to present the same hazards as fiberglass wool.
Information on: Fiberglass
Animal implantation studies have indicated that fiberglass wool is an animal carcinogen. A small study of Canadian glass wool workers reported a statistically significant increase in deaths due to lung cancer; however, animal inhalation studies and several large-scale studies of U.S. and European fiberglass wool workers have shown no statistically significant increases in lung cancer. The International Agency for Research on Cancer (IARC) has classified this material in Category 2B.
Information on: Fiberglass
These findings are based on glass wool, which has a smaller diameter than continous glass filament or glass fiber chopped strands or rovings. Fiberglass wool is not used in this product.

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.

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

Glass, oxide, chemicals

ACGIH	TWA value 5 mg/m3 Inhalable fraction ; TWA value 1 fibers/cm³ Fiber ; TWA value 1 fibers/cm³ Fiber ; TWA value 0.2 fibers/cm³ Fiber ;

Advice on system design:
Provide local exhaust ventilation to control dusts/vapours.

Personal protective equipment

Respiratory protection:
Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) particulate respirator.

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:	1.10 - 1.60 g/cm3	(20 °C) (EN/ISO 1183-1)
Bulk density:	500 - 800 kg/m3	
Solubility in water:		insoluble

10. Stability and reactivity

Decomposition products:
Hazardous decomposition products: carbon monoxide, hydrogen cyanide

Thermal decomposition:
> 300 °C

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.
Dispose of in a licensed facility.
Observe all 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:
TSCA, US released / listed

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

State regulations

State RTK

CAS Number	Chemical name	State RTK
65997-17-3	Glass, oxide, chemicals	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

END OF DATA SHEET