Safety data sheet
ULTRAMID® T KR 4355 G5 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

Synonyms: Polyamide 6/6T

2. Composition/information on ingredients

CAS Number	Content (W/W)	Chemical name
	>= 40.0 - <= 70.0 %	polyamide (PA 6T/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.
Information on: Caprolactam

Workers who were exposed to caprolactam vapors have complained of nervousness, heartburn, a heavy feeling in the stomach, stuffy nose and head, nosebleeds, a bitter taste, and dry, splitting lips and nose. Acute overexposure to caprolactam may cause CNS effects, including respiratory stimulation, mild circulatory depression, and convulsions. Inhalation of dusts in rats at 30 or 100 ppm has been shown to produce fetotoxicity.

Workers who were exposed to caprolactam vapors have complained of nervousness, heartburn, a heavy feeling in the stomach, stuffy nose and head, nosebleeds, a bitter taste, and dry, splitting lips and nose. Acute overexposure to caprolactam may cause CNS effects, including respiratory stimulation, mild circulatory depression, and convulsions. Inhalation of dusts in rats at 30 or 100 ppm has been shown to produce fetotoxicity.

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.
Information on: Caprolactam
May affect the liver and kidneys as indicated in animal studies.
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:
Rinse mouth and then drink plenty of water. Induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

5. Fire-fighting measures

Flash point:	> 400 °C	
Autoignition:	> 470 °C	(ASTM D1929)

Suitable extinguishing media:
water, foam, dry extinguishing media

Hazards during fire-fighting:
carbon monoxide, hydrogen cyanide, can be emitted at > 350 °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

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 away from heat. Keep bags tightly sealed.

Storage stability:
Keep container dry. 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/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 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. 295 °C	(DIN 53736)
Density:	1.20 - 1.50 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:
> 350 °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

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:
TSCA, US released / listed

State regulations

State RTK

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

16. Other information

Local contact information
Tech Desk
1-800-527-8324

ULTRAMID® T KR 4355 G5 UNCOLORED 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