The Chemical Company

Safety Data Sheet

ULTRAMID® T KR 4355 G7 BLACK 00564 POLYAMIDE

1. Product 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. 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 NIOSH-certified chemical goggles.
Wear protective clothing.
Eye wash fountains and safety showers must be easily accessible.

State of matter: solid
Colour: various, depending on the colourant
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:
Thermal decomposition products of the substance can irritate the eyes, skin, and respiratory tract.

Sensitization:
The substance is inert.

Chronic toxicity:

Genotoxicity: The substance is inert.

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:
The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

3. Composition / Information on Ingredients

CAS Number	Content (W/W)	Chemical name
	> 50.0 - < 70.0 %	polyamide (PA 6T/6)
65997-17-3	> 25.0 - < 45.0 %	Glass, oxide, chemicals
1333-86-4	> 0.1 - < 1.0 %	carbon black

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	
Autoignition:	> 470 °C	(ASTM D1929)
Self-ignition temperature:		not self-igniting

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

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. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination.

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:		not applicable
Melting temperature:	approx. 295 °C	(DIN 53765)
Boiling range:		The substance / product decomposes therefore not determined.

Vapour pressure:		not applicable
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

Acute toxicity

Information on: caprolactam
Assessment of acute toxicity:
Of moderate toxicity after short-term inhalation. Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact.

Irritation / corrosion

Information on: caprolactam
Assessment of irritating effects:
Irritating to eyes, respiratory system and skin.

Repeated dose toxicity

Information on: caprolactam
Assessment of repeated dose toxicity:
After repeated exposure the prominent effect is local irritation.

Information on: Carbon Black
Assessment of repeated dose toxicity:
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).

Carcinogenicity

Information on: Glass, oxide, chemicals
IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).
Information on: Carbon Black
IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). A clear indication of an increased risk of cancer in humans has so far not been shown. In long-term animal studies in which the substance was given by inhalation in high concentrations, a carcinogenic effect was observed.

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

Aquatic toxicity

Information on: Glass, oxide, chemicals
Assessment of aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from the structure of the product. No toxic effects occur within the range of solubility.
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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:
Chemical TSCA, US released / listed

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

State regulations

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

MA, NJ, PA	1333-86-4	carbon black

CA Prop. 65:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

16. Other Information

BASF supports worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

Local Contact Information
Tech Desk
+1 800 5278324

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