BASF
The Chemical Company

Safety data sheet
ULTRAMID® HMG13HS BK102 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: NYLON 6

2. Composition/information on ingredients

CAS Number	Content (W/W)	Chemical name
25038-54-4	> 20.0 - < 40.0 %	polyamide (PA 6)
65997-17-3	> 50.0 - < 70.0 %	Glass, oxide, chemicals
1333-86-4	< 1.0 %	carbon black

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.

Irritation:
Irritation is possible when the product comes in contact with the skin, respiratory tract or the eyes.

Repeated dose toxicity:
Information on: Carbon black
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).
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.

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.

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.

5. Fire-fighting measures

Flash point:	> 400 °C	(Unspecified)
Autoignition:	> 400 °C	(ASTM D1929)
Lower explosion limit:		No data available.
Upper explosion limit:		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.

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

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 ;
carbon black	OSHA	PEL 3.5 mg/m3 ;
	ACGIH	TWA value 3.5 mg/m3 ;

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

Personal protective equipment

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:	pellets	
Odour:	odourless	
Colour:	black	
pH value:		not applicable
Melting temperature:	approx. 220 °C	(DIN 53765)
Boiling range:		The substance / product decomposes therefore not determined.
:		not applicable
Vapour pressure:		not applicable
Density:	1.10 - 1.60 g/cm3	(20 °C) (EN ISO 1183-1)

Relative density:	1.05 - 1.25	
Bulk density:	500 - 800 kg/m3	
Partitioning coefficient n-octanol/water (log Pow):		No data available.
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

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.

12. Ecological information

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

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

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

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