

Safety data sheet

ULTRAMID® 8281HS POLYAMIDE

Revision date : 2008/02/19
Version: 2.0

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(30215454/MDS_GEN_US/EN)

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

Chemical family: polyamide
Synonyms: POLYAMIDE RESIN

2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
25038-54-4	>= 80.0 - <= 100.0 %	polyamide (PA 6)
105-60-2	>= 7.0 - <= 13.0 %	caprolactam

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.

Caprolactam monomer may be released during processing.

Information on: Caprolactam monomer

This product contains a significant level of caprolactam monomer; therefore, use of molten material could provide the potential for exposure to caprolactam vapor. Workers who were exposed to caprolactam vapors have complained of nervousness, heartburn, stuffy nose and head, nosebleeds, a bitter taste and dry lips and nose. Acute overexposure to caprolactam may cause CNS effects, including respiratory stimulation, circulatory depression and convulsions.



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Irritation:

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

Repeated dose toxicity:

No adverse effects have been reported in the processing and use of the product. No known chronic effects.

Information on: Caprolactam

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

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.

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

(closed cup)

Autoignition:

No data available.

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').



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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

TWA value 5 mg/m3 Inhalable fraction and vapor ;

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.

9. Physical and chemical properties

Form:

pellets

Odour:

odourless

Colour:

opaque

pH value:

No data available.

softening point:

215 - 225 °C

Relative density:

1.05 - 1.25

10. Stability and reactivity



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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

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



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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

105-60-2

Chemical name

caprolactam

State RTK

MA, NJ, PA

16. Other information

HMIS III rating

Health: 0

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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