

# Safety data sheet

## ULTRAMID® A3X2G7 UNCOLORED POLYAMIDE

Revision date : 2007/03/08

Version: 2.0

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(30045152/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

Molecular formula: (C12 H22 N2 O2)  
Synonyms: Nylon 66

### 2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
32131-17-2	30.0 - 60.0 %	polyamide (PA 66)
7723-14-0	<= 5.0 %	phosphorus
65997-17-3	>= 30.0 - <= 60.0 %	Glass, oxide, chemicals

### 3. Hazard identification

Emergency overview

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
INGESTION MAY CAUSE GASTRIC DISTURBANCES.  
CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE.  
CAN CAUSE CARDIAC OR CARDIOVASCULAR DAMAGE.  
CAN CAUSE KIDNEY DAMAGE.  
CAN CAUSE LIVER DAMAGE.  
CONTAINS MATERIAL WHICH CAN CAUSE CANCER.  
Avoid contact with the skin, eyes and clothing.  
Avoid inhalation of dusts/mists/vapours.  
Wear a NIOSH-certified (or equivalent) particulate respirator.  
Wear NIOSH-certified chemical goggles.  
Wear chemical resistant protective gloves.  
Eye wash fountains and safety showers must be easily accessible.

Potential health effectsPrimary 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.



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### Information on: Phosphine

Thermal decomposition of red phosphorous may emit phosphine. The PEL/TLV for phosphine is 0.3 ppm ACGIH, OSHA (Final); 1 ppm STEL ACGIH, OSHA (Final).

Inhalation of phosphine may result in severe pulmonary irritation, cough, headache, chest tightness, dizziness, lethargy and stupor. Delayed pulmonary edema may result. Inhalation also results in CNS effects including nausea, dizziness, fatigue, ataxia, seizures and possibly coma. Cardiac arrhythmias may also be noted. Gastric disturbances including nausea, vomiting, abdominal pain and diarrhea may also be noted. Liver and kidney damage may also be noted. Exposure to 8 ppm concentrations at 1 or 2 hrs/day were found to be fatal to humans.

### Information on: Phosphorous, red

Inhalation of vapors or smoke from products containing red phosphorus may result in respiratory tract irritation, lung injury or systemic effects. In animal studies, red phosphorus was reported to cause adverse lung and kidney effects.

### Irritation:

Contact with the eyes or skin may cause mechanical irritation.

### Repeated dose toxicity:

#### 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 continuous 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 there are visible signs of phosphine exposure.

### 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:	> 350 °C	(ASTM D1929)

### Suitable extinguishing media:

water, foam, dry extinguishing media



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### Hazards during fire-fighting:

carbon monoxide, hydrogen cyanide, Phosphine, can be emitted at > 310 °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

#### General advice:

Provide suitable exhaust ventilation at drying process and in the surrounding of the melt outlet of processing machines. Closed containers should only be opened in well-ventilated areas. Ensure thorough ventilation of stores and work areas.

#### Protection against fire and explosion:

Take precautionary measures against static discharges.

Handling of hot melt may produce small flame-up conditions. Hot melt should be placed in cool water immediately if flame-up occurs.

### Storage

#### General advice:

Keep container tightly closed. Protect against moisture.

## 8. Exposure controls and personal protection

### Components with workplace control parameters

phosphorus OSHA PEL 0.1 mg/m<sup>3</sup> ;

Glass, oxide, chemicals

ACGIH TWA value 5 mg/m<sup>3</sup> Inhalable fraction ; TWA value 1  
fibers/cm<sup>3</sup> Fiber ; TWA value 1 fibers/cm<sup>3</sup> Fiber ; TWA  
value 0.2 fibers/cm<sup>3</sup> Fiber ;

### Advice on system design:

Ensure adequate ventilation. Local exhaust ventilation preferred.



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### Personal protective equipment

#### **Respiratory protection:**

Wear a NIOSH-certified (or equivalent) particulate respirator. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. Wear the following respiratory protection if exposure limit for phosphine may be exceeded: Wear a NIOSH-certified (or equivalent) supplied-air respirator.

#### **Hand protection:**

Chemical resistant protective gloves

#### **Eye protection:**

Tightly fitting safety goggles (chemical goggles).

#### **Body protection:**

Apron

#### **General safety and hygiene measures:**

Do not inhale gases/vapours/aerosols. 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 range:	260 °C	(DIN 53736)
Density:	1.30 - 1.60 g/cm <sup>3</sup>	( 20 °C) (EN ISO 1183-1)
Bulk density:	500 - 800 kg/m <sup>3</sup>	
Solubility in water:		insoluble

## 10. Stability and reactivity

#### **Decomposition products:**

Hazardous decomposition products: carbon monoxide, hydrogen cyanide, Phosphine

#### **Thermal decomposition:**

> 310 °C

To avoid thermal decomposition, do not overheat.

## 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.



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### 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 accordance with national, state and 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

#### SARA 313:

##### CAS Number

7723-14-0

##### Chemical name

phosphorus

### State regulations

#### State RTK

##### CAS Number

7723-14-0

65997-17-3

##### Chemical name

phosphorus

Glass, oxide, chemicals

##### State RTK

MA, NJ, PA

MA, NJ, PA

#### CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.



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### 16. Other information

#### HMIS III rating

Health: 3      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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