

# Safety Data Sheet

## ULTRAMID®A3XG3 BLACK 20562

Revision date : 2013/01/14

Version: 2.0

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(30594107/SDS\_GEN\_US/EN)

### 1. Product and Company Identification

Company

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

### 2. Hazards Identification

Emergency overview

## WARNING:

MAY CAUSE PAIN, NAUSEA, VOMITING AND DIARRHEA.

May emit phosphine during storage and processing.

Phosphine can cause serious lung damage.

Use with local exhaust ventilation.

Use NIOSH approved respirator as needed to mitigate exposure.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

State of matter: solid

Colour: black

Odour: garlic-like

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:**

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

**Sensitization:**

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

**Chronic toxicity:**

**Carcinogenicity:** Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.



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**Repeated dose toxicity:** Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

**Genotoxicity:** Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

**Signs and symptoms of overexposure:**

No significant reaction of the human body to the product known.

**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:**

Experience shows this product to be inert and non-degradable.

### 3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
32131-17-2	>= 40.0 - <= 60.0 %	polyamide (PA 66)
65997-17-3	>= 10.0 - <= 20.0 %	Glass, oxide, chemicals
25038-54-4	>= 10.0 - <= 20.0 %	polyamide (PA 6)
7723-14-0	>= 7.0 - <= 15.0 %	red phosphorus
8005-02-5	>= 3.0 - <= 7.0 %	C.I. Solvent Black 7
26355-78-2	>= 1.0 - <= 5.0 %	2-Propenoic acid, polymer with butyl 2-propenoate and ethene
14807-96-6	>= 1.0 - <= 5.0 %	talc

### 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:	> 350 °C	(ASTM D1929)
Self-ignition temperature:		not self-igniting

**Suitable extinguishing media:**

water spray, dry powder, foam



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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

### Personal precautions:

No special precautions necessary.

### Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

### Cleanup:

Reclaim for processing if possible. Sweep/shovel up.

### Further information:

High risk of slipping due to leakage/spillage of product.

## 7. Handling and Storage

### Handling

#### General advice:

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

#### 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. Avoid deposition of dust.

#### Storage stability:

Protect against moisture.

## 8. Exposure Controls and Personal Protection

### Components with occupational exposure limits

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 ;
OSHA	PEL 0.3 ppm 0.4 mg/m <sup>3</sup> ;
ACGIH	TWA value 0.3 ppm ; STEL value 1 ppm ;

Phosphine



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### 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. 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:

Wear gloves to prevent contact during mechanical processing and/or hot melt conditions.

#### Eye protection:

Wear safety goggles (chemical goggles) if there is potential for airborne dust exposures. Safety glasses with side-shields.

#### Body protection:

Body protection must be chosen based on level of activity and exposure.

#### General safety and hygiene measures:

Wear protective clothing to prevent contact during mechanical processing and/or hot melt conditions. Do not inhale gases/vapours/aerosols. Wash soiled clothing immediately.

## 9. Physical and Chemical Properties

Form:	pellets	
Odour:	garlic-like	
Colour:	black	
pH value:		not applicable
Melting temperature:	approx. 260 °C	(DIN 53765)
Boiling range:		The substance / product decomposes therefore not determined.
Vapour pressure:		not applicable
Density:	1.30 - 1.60 g/cm <sup>3</sup>	( 20 °C)
Bulk density:	500 - 800 kg/m <sup>3</sup>	
Solubility in water:		insoluble

## 10. Stability and Reactivity

### Conditions to avoid:

Avoid prolonged exposure to extreme heat.

### Substances to avoid:

No substances known that should be avoided.

### Hazardous reactions:

The product is chemically stable.  
No hazardous reactions known.

### Decomposition products:

Hazardous decomposition products: carbon monoxide, hydrogen cyanide, Phosphine

### Thermal decomposition:

> 300 °C

May decompose if overheated and/or subjected to prolonged heating. To avoid thermal decomposition, do not overheat.

### Corrosion to metals:



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No corrosive effect on metal.

**Oxidizing properties:**  
not fire-propagating

### 11. Toxicological information

#### Acute toxicity

*Information on: red phosphorus*  
*Assessment of acute toxicity:*  
*Inhalation may cause systemic effects.*  
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#### Inhalation:

*Information on: Phosphine*  
*Type of value: LC50*  
*Species: rat*  
*Value: 0.015 mg/l*  
*Exposure time: 4 h*  
*Literature data.*  
-----

#### Irritation / corrosion

*Information on: talc*  
*Assessment of irritating effects:*  
*May cause slight irritation to the skin. May cause slight irritation to the eyes.*  
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#### Repeated dose toxicity

*Information on: red phosphorus*  
*Assessment of repeated dose toxicity:*  
*May affect the liver and kidneys as indicated in animal studies.*  
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*Information on: talc*  
-----

#### 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: talc*  
*In long-term animal studies in which the substance was given by inhalation in high concentrations, a carcinogenic effect was observed.*  
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#### Aspiration Hazard:

No aspiration hazard expected.

#### 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.



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### 12. Ecological Information

#### Degradability / Persistence Biological / Abiological Degradation

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

#### 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. 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:

Chemical TSCA, US released / listed

#### EPCRA 311/312 (Hazard categories):

Acute;

CERCLA RQ  
1 LBS

CAS Number  
7723-14-0

Chemical name  
red phosphorus



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### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
MA, NJ, PA	65997-17-3	Glass, oxide, chemicals
NJ, PA	7723-14-0	red phosphorus
MA, NJ, PA	14807-96-6	talc

### **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.

## 16. Other Information

### **NFPA Hazard codes:**

Health : 3      Fire: 1      Reactivity: 0      Special:

### **HMIS III rating**

Health: 3      Flammability: 1      Physical hazard: 0

NFPA and HMIS use 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 extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

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### **MSDS Prepared by:**

BASF NA Product Regulations  
msds@basf.com  
MSDS Prepared on: 2013/01/14

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