

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
CHEMTRIC: 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

CAS Number	Content (W/W)	Chemical name
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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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 ³	(20 °C)
Bulk density:	500 - 800 kg/m ³	
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.

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.

Repeated dose toxicity

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

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.

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 **CAS Number** **Chemical name**
11 lbs 7723-14-0 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.

We support 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.

MSDS Prepared by:

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

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