

Safety Data Sheet

ULTRAMID® A3X2G5 UNCOLORED POLYAMIDE

Revision date : 2013/07/22

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Version: 1.0

(30045156/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)

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

2. Hazards 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.

State of matter: solid
Colour: various, depending on the colourant
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:

Thermal decomposition products of the substance can irritate the eyes, skin, and respiratory tract.

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:

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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.

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.

No hazard is expected under intended use and appropriate handling.

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.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
32131-17-2	>= 50.0 - <= 70.0 %	polyamide (PA 66)
65997-17-3	>= 20.0 - <= 40.0 %	Glass, oxide, chemicals
7723-14-0	>= 5.0 - <= 10.0 %	red phosphorus
26355-78-2	>= 3.0 - <= 7.0 %	2-Propenoic acid, polymer with butyl 2-propenoate and ethene

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. Consult a physician.

If on skin:

Burns caused by molten material require hospital treatment.

If in eyes:

If irritation develops, seek medical attention. In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water.

If swallowed:

Ingestion is not likely in the available physical form. If ingested, seek medical attention. Consult a physician.

5. Fire-Fighting Measures

Flash point:	> 400 °C	(Unspecified)
Autoignition:	> 350 °C	(ASTM D1929)
Lower explosion limit:		The substance / product decomposes therefore not determined.
:		not applicable, the product does not form flammable aerosols)

Flammability: not self-igniting

Self-ignition temperature: not self-igniting

Suitable extinguishing media:

water spray, foam, dry powder



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Hazards during fire-fighting:

Ammonium hydroxide, carbon monoxide, carbon dioxide, cyclopentanone, hydrogen cyanide, Phosphine, amine derivatives, nitriles can be emitted at > 320 °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:

This product is not regulated by CERCLA ('Superfund'). This product is not regulated by RCRA.

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

Any short stoppages in production, it is recommended that you inject material into the mould not purge an air shot. Any molten material drooling from the machine nozzle or hot runner nozzles can self-ignite when in open atmosphere.

It is therefore advisable to dispose of purgings etc into water containers.

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. Protect against moisture.

Storage stability:

Protect against moisture.



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8. Exposure Controls and Personal Protection

Advice on system design:

Ensure adequate ventilation. Local exhaust ventilation preferred.

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:

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

Eye protection:

Tightly fitting safety goggles (chemical goggles).

Body protection:

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

General safety and hygiene measures:

Do not inhale gases/vapours/aerosols. Wash soiled clothing immediately.

9. Physical and Chemical Properties

Form:	pellets	
Odour:	garlic-like	
Colour:	various, depending on the colourant	
pH value:		not applicable
melting range:	260 °C	(DIN 53765)
Boiling range:		The substance / product decomposes therefore not determined.
Vapour pressure:		not applicable
Density:	1.30 - 1.60 g/cm3	(20 °C) (EN ISO 1183-1)
Relative density:		No data available.
Bulk density:	500 - 800 kg/m3	
Vapour density:		not applicable
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Viscosity, kinematic:		not applicable, the product is a solid
Solubility in water:		insoluble

10. Stability and Reactivity

Conditions to avoid:

Temperature: > 320 degrees Celsius

Substances to avoid:

No substances known that should be avoided.

Decomposition products:

Hazardous decomposition products: Ammonium hydroxide, carbon monoxide, carbon dioxide, cyclopentanone, hydrogen cyanide, Phosphine, amines, nitriles

Thermal decomposition:

> 320 °C (TGA)



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To avoid thermal decomposition, do not overheat.

11. Toxicological information

Acute toxicity

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

Irritation / corrosion

Information on: Glass, oxide, chemicals
Assessment of irritating effects:
Skin contact causes irritation. EU-classification

Repeated dose toxicity

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

Carcinogenicity

Information on: Glass, oxide, chemicals
EU-classification Results from poorly documented long-term studies in rats indicated a carcinogenic potential.
IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). NTP listed carcinogen

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.

12. Ecological Information

Degradability / Persistence Biological / Abiological Degradation

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

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.



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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:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories):

Not hazardous;

CERCLA RQ

1 LBS

CAS Number

7723-14-0

Chemical name

red phosphorus

State regulations

State RTK

MA, NJ, PA
NJ, PA

CAS Number

65997-17-3
7723-14-0

Chemical name

Glass, oxide, chemicals
red phosphorus

16. Other Information

Recommended use: Polymer for industrial processing only

Suitable for use in industrial sector: Polymers industry;

HMIS III rating

Health: 3 Flammability: 1 Physical hazard: 0



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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.

SDS Prepared by:

BASF NA Product Regulations

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SDS Prepared on: 2013/07/22

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