Safety Data Sheet
ULTRAMID® 66 H2 G35 V0KB Nat0046 POLYAMIDE

1. Product 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

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

Sensitization:
The substance is inert.

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.

Genotoxicity: The substance is inert.

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	>= 20.0 - <= 40.0 %	Glass, oxide, chemicals
7723-14-0	>= 3.0 - <= 7.0 %	red phosphorus

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

Hazards during fire-fighting:
can be emitted at > 310 °C
Formation of further decomposition and oxidation products depends upon the fire conditions. Under special fire conditions traces of other toxic substances are possible.

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:
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 workplace control parameters

Glass, oxide, chemicals		
	ACGIH	TWA value 5 mg/m3 Inhalable fraction ; TWA value 1 fibers/cm³ Fiber ; TWA value 1 fibers/cm³ Fiber ; TWA value 0.2 fibers/cm³ Fiber ;
Phosphine	OSHA	PEL 0.3 ppm 0.4 mg/m3 ;
	ACGIH	TWA value 0.3 ppm ; STEL value 1 ppm ;

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:	various, depending on the colourant	
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/cm3	(20 °C)
Bulk density:	500 - 800 kg/m3	
Solubility in water:		insoluble

10. Stability and Reactivity

Conditions to avoid:
Avoid prolonged exposure to extreme heat.

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:
No corrosive effect on metal.

11. Toxicological information

Acute toxicity

Inhalation:

Information on: Phosphine
Type of value: LC50
Species: rat
Value: 0.015 mg/l
Exposure time: 4 h

Literature data.

Repeated dose toxicity

Information on: Phosphine
Assessment of repeated dose toxicity:
The substance may cause damage to the lung after repeated inhalation. Repeated exposures may result in pulmonary congestion. The substance may cause damage to the kidney after repeated inhalation.

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).

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: 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

CERCLA RQ	CAS Number	Chemical name
1 LBS	7723-14-0	red phosphorus

State regulations

State RTK	CAS Number	Chemical name
MA, NJ, PA	65997-17-3	Glass, oxide, chemicals
NJ, PA	7723-14-0	red phosphorus

CA Prop. 65:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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:
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