



The Chemical Company

## Safety Data Sheet

### Ultramid® B3S NATURAL Q661

Revision date : 2012/10/12

Version: 1.0

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(30082326/SDS\_GEN\_CA/EN)

#### 1. Product and Company Identification

Company

BASF Canada Inc.  
100 Milverton Drive  
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information

CANUTEC (reverse charges): (613) 996-6666  
BASF HOTLINE: (800) 454-COPE (2673)

Molecular formula: (C6 H11 N0)N  
Synonyms: Polycaprolactam; Polyamide-6; Nylon 6

#### 2. Hazards Identification

Emergency overview

NO PARTICULAR HAZARDS KNOWN.  
Use with local exhaust ventilation.

State of matter: solid  
Colour: opaque  
Odour: odourless

Potential health effects**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:**

**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.

**Medical conditions aggravated by overexposure:**

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See MSDS section 11 - Toxicological information.

**Signs and symptoms of overexposure:**

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

### Potential environmental effects

#### **Aquatic toxicity:**

There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from the structure of the product.

#### **Degradation / environmental fate:**

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

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### 3. Composition / Information on Ingredients

Not WHMIS controlled.

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### 4. First-Aid Measures

#### **General advice:**

Remove contaminated clothing.

#### **If inhaled:**

Assist in breathing if necessary. Keep patient calm, remove to fresh air. Consult a physician.

#### **If on skin:**

Burns caused by molten material require hospital treatment. 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.

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### 5. Fire-Fighting Measures

Autoignition:	> 400 °C	(ASTM D1929)
Lower explosion limit:		not applicable
Upper explosion limit:		not applicable
Flammability:	not highly flammable	
Self-ignition temperature:		not self-igniting

#### **Suitable extinguishing media:**

water spray, foam, dry powder, carbon dioxide

#### **Hazards during fire-fighting:**

carbon monoxide, hydrogen cyanide, can be emitted at > 300 °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.

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### 6. Accidental release measures

**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
**Protection against fire and explosion:**

Take precautionary measures against static discharges.

Storage
**Storage stability:**

Protect against moisture.

### 8. Exposure Controls and Personal Protection

**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) organic vapour/particulate respirator.

**Hand protection:**

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

**Eye protection:**

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. Avoid inhalation of dust. Wash soiled clothing immediately.

### 9. Physical and Chemical Properties

Form:	pellets	
Odour:	odourless	
Odour threshold:	No data available.	
Colour:	opaque	
pH value:		not soluble
Melting temperature:	approx. 220 °C	(DIN 53765)
onset of boiling:		not applicable
Vapour pressure:		not applicable
Density:	1.12 - 1.15 g/cm3	(20 °C) (EN ISO 1183-1)

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Relative density:		No data available.
Bulk density:	640 - 740 kg/m <sup>3</sup>	
Vapour density:		not applicable, The product is a non-volatile solid.
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Viscosity, dynamic:		not applicable
Solubility in water:		insoluble

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### 10. Stability and Reactivity

**Conditions to avoid:**

Temperature: > 300 degrees Celsius  
Avoid prolonged exposure to extreme heat.

**Substances to avoid:**

No substances known that should be avoided.

**Hazardous reactions:**

No hazardous reactions known.

**Decomposition products:**

Hazardous decomposition products: carbon monoxide, hydrogen cyanide, caprolactam  
Thermal decomposition products: caprolactam, The substances/groups of substances mentioned may be released during processing.

**Thermal decomposition:**

> 300 °C  
May decompose if overheated and/or subjected to prolonged heating.

**Corrosion to metals:**

No corrosive effect on metal.

**Oxidizing properties:**

not fire-propagating

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### 11. Toxicological information

**Aspiration Hazard:**

not applicable

**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

**Bioaccumulation**

The product will not be readily bioavailable due to its consistency and insolubility in water. Due to the consistency of the product, dispersion into the environment is impossible. Therefore no negative effects on the environment may be anticipated based on the present state of knowledge.

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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:**

Dispose of in accordance with national, state and local regulations. Packs must be completely emptied.

Completely emptied packagings can be given for recycling.

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### 14. Transport Information

**Land transport**

TDG

Not classified as a dangerous good under transport regulations

**Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

**Air transport**

IATA/CAO

Not classified as a dangerous good under transport regulations

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### 15. Regulatory Information

**Federal Regulations****Registration status:**

Chemical DSL, CA released / listed

Not WHMIS controlled.

**THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.**

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### 16. Other Information

Recommended use: Polymer for industrial processing only

Suitable for use in industrial sector: Polymers industry;

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.

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MSDS Prepared on: 2012/10/12

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