

## Safety Data Sheet

### ULTRAFORM® N2320 003 PRO UNCOLORED POLYACETAL

Revision date : 2012/11/21

Version: 1.0

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(30542519/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

#### CAUTION:

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

CAN CAUSE THERMAL BURNS.

HEATING DURING PROCESSING OF PRODUCT MAY RESULT IN RELEASE OF THE DECOMPOSITION PRODUCT FORMALDEHYDE.

MAY EMIT FORMALDEHYDE WHICH CAN CAUSE CANCER.

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Wear NIOSH-certified chemical goggles.

Eye wash fountains must be easily accessible.

State of matter: solid

Colour: various, depending on the colourant

Odour: product specific

### 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.

#### **Assessment other acute effects:**

Causes temporary irritation of the 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.



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### 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:** 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:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

#### Degradation / environmental fate:

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

## 3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
25214-85-1	>= 80.0 - <= 100.0 %	polyoxymethylene copolymerizate (POM)

## 4. First-Aid Measures

#### If inhaled:

If formaldehyde vapour is inhaled, remove person to fresh air and keep warm, if necessary summon physician. Inhale corticosteroid dose aerosol.

#### If on skin:

Burns caused by molten material require hospital treatment.

## 5. Fire-Fighting Measures

Flash point:	320 - 340 °C	(ASTM D1929) not applicable
Autoignition:	320 - 340 °C	(ASTM D1929)
Self-ignition temperature:		not self-igniting

#### Suitable extinguishing media:

water spray, foam, dry powder

#### Hazards during fire-fighting:

carbon monoxide, Formaldehyde,

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:

Wear a self-contained breathing apparatus.

#### Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.



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### 6. Accidental release measures

#### Personal precautions:

No special precautions necessary.

#### Environmental precautions:

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

#### Cleanup:

For small amounts: Sweep/shovel up.

For large amounts: Sweep/shovel up.

#### 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 processing machines. Avoid inhalation of dusts/mists/vapours.

##### Protection against fire and explosion:

Containers should be grounded against electrostatic charge.

### 8. Exposure Controls and Personal Protection

#### Components with occupational exposure limits

Formaldehyde	OSHA	TWA value 0.75 ppm ; STEL value 2 ppm ; OSHA Action level 0.5 ppm ; ACGIH CLV 0.3 ppm ;
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#### Personal protective equipment

##### Respiratory protection:

Wear a NIOSH-certified organic vapour cartridge respirator when handling molten materials. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination.

##### Hand protection:

Chemical resistant protective gloves

##### Eye protection:

Safety glasses with side-shields.

##### General safety and hygiene measures:

Avoid inhalation of vapour.

### 9. Physical and Chemical Properties

Form:	pellets
Odour:	product specific
Colour:	various, depending on the colourant
pH value:	not applicable
melting range:	160 - 175 °C
Boiling range:	(DIN EN ISO 3146) The substance / product decomposes therefore not determined.
Vapour pressure:	not applicable



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Density:	1.4 g/cm3	( 20 °C) (DIN 53479)
Relative density:		No data available.
Bulk density:	850 kg/m3	
Vapour density:		not applicable
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Solubility in water:		insoluble

## 10. Stability and Reactivity

### Conditions to avoid:

Temperature: > 240 degrees Celsius

### Substances to avoid:

inorganic acids, organic acids

### Hazardous reactions:

Do not process with PVC or other plastics containing halogenated flame retardants.

### Decomposition products:

Possible decomposition products: carbon monoxide, Formaldehyde

### Thermal decomposition:

> 240 °C

To avoid thermal decomposition, do not overheat. May decompose violently. Gaseous products of degradation can be given off if the product is greatly overheated.

## 11. Toxicological information

### Acute toxicity

Information on: Formaldehyde

Assessment of acute toxicity:

Of high toxicity after short-term inhalation. Of high toxicity after short-term skin contact. Of high toxicity after single ingestion.

### Inhalation:

Information on: Formaldehyde

Type of value: LC50

Species: rat

Value: 0.578 mg/l

Exposure time: 4 h

Literature data.

### Repeated dose toxicity

Information on: Formaldehyde

Assessment of repeated dose toxicity:

The International Agency for Research on Cancer (IARC) has classified formaldehyde as a Group 1 (known) human carcinogen based on epidemiological evidence linking formaldehyde exposure to occurrence of nasopharyngeal cancer. NTP listed carcinogen. The use of products that contain or liberate formaldehyde is regulated under the OSHA Formaldehyde Standard (see 29 CFR 1910.1048).

### Aspiration Hazard:

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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

### 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. Incinerate in suitable incineration plant, observing local authority regulations.

### Container disposal:

Packs must be completely emptied. Completely emptied packagings can be given for recycling.

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## 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

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## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical                    TSCA, US            released / listed

#### OSHA hazard category:

Chronic target organ effects reported;

### State regulations



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### CA Prop. 65:

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

## 16. Other Information

Recommended use: Polymer for industrial processing only  
Suitable for use in industrial sector: Polymers industry;

### HMIS III rating

Health: 1      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.

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### MSDS Prepared by:

BASF NA Product Regulations

msds@basf.com

MSDS Prepared on: 2012/11/21

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