



The Chemical Company

## Safety data sheet

ULTRAFORM® N2320 U03 UNCOLORED Q600

POLYACETAL

Revision date : 2006/05/16

Version: 2.0

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(30192062/MDS\_GEN\_US/EN)

### 1. Substance/preparation 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

Synonyms:

POLYOXYMETHYLENE COPOLYMER

### 2. Composition/information on ingredients

CAS Number  
24969-26-4

Content (W/W)  
< 100.0 %

Chemical name  
polyoxymethylene copolymerizate (POM)

### 3. Hazard identification

#### Emergency overview

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
MAY CAUSE RESPIRATORY SENSITIZATION (OSHA 29 CFR 1910.1048)  
UNDER HOT MELT PROCESSING CONDITIONS, WEAR PERSONAL PROTECTIVE EQUIPMENT TO PREVENT THERMAL BURNS.  
HEATING DURING PROCESSING OF PRODUCT MAY RESULT IN RELEASE OF THE DECOMPOSITION PRODUCT FORMALDEHYDE.  
MAY EMIT FORMALDEHYDE WHICH CAN CAUSE CANCER.

#### 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.

*Information on: Formaldehyde*

*Formaldehyde is highly irritating to the upper respiratory tract and eyes, nose, throat and lungs. Repeated exposure may lead to sensitization in some individuals. Formaldehyde overexposure can cause symptoms of bronchial asthma, either by direct irritation or sensitization. Inhalation may cause irritation to the respiratory tract, breathing difficulties, coughing, CNS effects, pneumonitis and pulmonary edema.*

**Irritation:**



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

### Repeated dose toxicity:

No adverse effects have been reported in the processing and use of the product. No known chronic effects.

### Information on: Formaldehyde

*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).*

### Medical conditions aggravated by overexposure:

The use of products that contain or liberate formaldehyde is regulated under the OSHA Formaldehyde Standard (see 29 CFR 1910.1048).

## 4. First-aid measures

### General advice:

Burns caused by molten material require hospital treatment.

### If inhaled:

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

### If on skin:

If contacted with decomposition products wash affected areas with soap and water.

### If in eyes:

In case decomposition products come into contact with the eyes, immediately flush with running water for at least 15 minutes.

### If swallowed:

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

## 5. Fire-fighting measures

Flash point: 320 - 340 °C (ASTM D1929)

### Suitable extinguishing media:

water, foam, dry extinguishing media

### Hazards during fire-fighting:

carbon monoxide, formaldehyde,

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.

## 6. Accidental release measures

### Environmental precautions:

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



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#### **Cleanup:**

Reclaim for processing if possible. Sweep/shovel up. Place into suitable containers for reuse or disposal in a licensed facility.

#### **Further information:**

High risk of slipping due to leakage/spillage of product.

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## 7. Handling and storage

### Handling

#### **General advice:**

Avoid inhalation of dusts/mists/vapours. Provide appropriate exhaust ventilation at machinery.

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

Containers should be grounded against electrostatic charge.

### Storage

#### **General advice:**

Keep container tightly closed. Avoid deposition of dust.

#### **Storage stability:**

Protect against moisture.

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## 8. Exposure controls and personal protection

#### **Advice on system design:**

Provide local exhaust ventilation to control dusts/vapours.

### Personal protective equipment

#### **Respiratory protection:**

Wear a NIOSH-certified (or equivalent) particulate respirator. Wear respiratory protection if ventilation is inadequate.

#### **Hand protection:**

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

#### **Eye protection:**

Tightly fitting safety goggles (chemical goggles).

#### **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.

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## 9. Physical and chemical properties

|                      |             |                    |
|----------------------|-------------|--------------------|
| Form:                | pellets     |                    |
| Odour:               | odourless   |                    |
| Colour:              | opaque      |                    |
| pH value:            |             | No data available. |
| Relative density:    | 1.35 - 1.45 |                    |
| Bulk density:        | 850 kg/m3   |                    |
| Solubility in water: |             | insoluble          |



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### 10. Stability and reactivity

**Conditions to avoid:**

Avoid prolonged exposure to extreme heat.

**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

**Corrosion to metals:**

No corrosive effect on metal.

### 11. Toxicological information

**Inhalation:**

*Information on: Formaldehyde*  
*LC50/rat: 0.578 mg/l / 4 h*

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**Dermal:**

*Information on: Formaldehyde*  
*LD50/rabbit: approx. 270 mg/kg*

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**Sensitization:**

*Information on: Formaldehyde*  
*Mouse Local Lymph Node Assay (LLNA)/mouse: sensitizing*

*Guinea pig maximization test/guinea pig: sensitizing (OECD Guideline 406)*

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### 12. Ecological information

### 13. Disposal considerations

**Waste disposal of substance:**

Incinerate in a licensed facility.  
Do not discharge substance/product into sewer system.



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### Container disposal:

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:

TSCA, US

released / listed

## 16. Other information

### HMIS III rating

Health: 1

Flammability: 1

Physical hazard: 0

HMIS uses 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 high hazard.

### Local contact information

Tech Desk

1-800-527-8324

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