1. Identification

Product identifier used on the label

ULTRAFORM® N2640 Z4 BLACK 140 Q600 POLYACETAL

Recommended use of the chemical and restriction on use
Recommended use*: Polymer; for industrial processing only
Suitable for use in industrial sector: Polymers industry

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification
Synonyms: POLYOXYMETHYLENE COPOLYMER

2. Hazards Identification


Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

The product does not require a hazard warning label in accordance with GHS criteria.
Hazards not otherwise classified

Labeling of special preparations (GHS):
Contains formaldehyde. May cause cancer. This product is capable of releasing formaldehyde into the air. HEATING DURING PROCESSING OF PRODUCT MAY RESULT IN RELEASE OF THE DECOMPOSITION PRODUCT FORMALDEHYDE.

3. Composition / Information on Ingredients


This product does not contain any components classified as hazardous under the referenced regulation.


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>24969-26-4</td>
<td>&gt;= 70.0 - &lt;= 90.0%</td>
<td>polyoxymethylene copolymerizate (POM)</td>
</tr>
<tr>
<td>26375-23-5</td>
<td>&gt;= 15.0 - &lt;= 30.0%</td>
<td>Hexanedioic acid, polymer with 1,4-butanediol and 1,1'-methylenebis[4-isocyanatobenzene]</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

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.

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. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant reaction of the human body to the product known.
Hazards: No hazard is expected under intended use and appropriate handling.

Indication of any immediate medical attention and special treatment needed

Note to physician
Treatment: Treat symptomatically.
5. Fire-Fighting Measures

**Extinguishing media**

Suitable extinguishing media:
- water spray, foam, dry powder

**Special hazards arising from the substance or mixture**

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.

**Advice for fire-fighters**

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

**Further accidental release measures:**
- High risk of slipping due to leakage/spillage of product.

**Personal precautions, protective equipment and emergency procedures**
- Wear suitable personal protective clothing and equipment.

**Environmental precautions**
- No special precautions necessary. This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

**Methods and material for containment and cleaning up**
- For small amounts: Sweep/shovel up.
- For large amounts: Sweep/shovel up.

7. Handling and Storage

**Precautions for safe handling**
- 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.

**Conditions for safe storage, including any incompatibilities**
- The product in undamaged packing need not be stored separately.
- Suitable materials for containers: Low density polyethylene (LDPE), High density polyethylene (HDPE), Carbon steel (Iron)
8. Exposure Controls/Personal Protection

No occupational exposure limits known.

**Advice on system design:**
Provide exhaust ventilation at sources when processing molten product.

**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. 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:**
Avoid inhalation of vapour. Wash soiled clothing immediately.

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9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>pellets</td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td>product specific</td>
<td></td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No applicable information available.</td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>black</td>
<td></td>
</tr>
<tr>
<td>pH value</td>
<td>not applicable</td>
<td></td>
</tr>
<tr>
<td>Melting range</td>
<td>160 - 175 °C (DIN EN ISO 3146)</td>
<td></td>
</tr>
<tr>
<td>Boiling range</td>
<td>The substance / product decomposes therefore not determined.</td>
<td></td>
</tr>
<tr>
<td>Sublimation point</td>
<td>No applicable information available.</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>320 - 340 °C (ASTM D1929)</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>not self-igniting</td>
<td></td>
</tr>
<tr>
<td>Flammability of Aerosol Products</td>
<td>not applicable, the product does not form flammable aerosoles</td>
<td></td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>For solids not relevant for classification and labelling.</td>
<td></td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>For solids not relevant for classification and labelling.</td>
<td></td>
</tr>
<tr>
<td>Autoignition</td>
<td>320 - 340 °C (ASTM D1929)</td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>not applicable</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>1.4 g/cm³ (20 °C) (DIN 53479)</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td>Bulk density</td>
<td>850 kg/m³</td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>not applicable</td>
<td></td>
</tr>
<tr>
<td>Partitioning coefficient n-octanol/water (log Pow):</td>
<td>not applicable</td>
<td></td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
No corrosive effect on metal.

Oxidizing properties:
not fire-propagating

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
Do not process with PVC or other plastics containing halogenated flame retardants.

Conditions to avoid
Temperature: > 240 degrees Celsius

Incompatible materials
inorganic acids, organic acids

Hazardous decomposition products

Decomposition products:
Possible decomposition products: carbon monoxide, Formaldehyde, carbon dioxide, Water

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

Primary routes of exposure
Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects
Acute toxicity
Assessment of acute toxicity: Contact with molten product may cause thermal burns. The resin in pelleted form poses a low hazard.

Information on: Formaldehyde

Oral
Type of value: ATE
Value: > 5,000 mg/kg

Inhalation
The inhalation of fumes represents a severe acute hazard. Irritating to respiratory system.

Dermal
Type of value: ATE
Value: > 5,000 mg/kg

Assessment other acute effects
Assessment of STOT single:
Causes temporary irritation of the respiratory tract.

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion
Assessment of irritating effects: Thermal decomposition products of the substance can irritate the eyes, skin, and respiratory tract.

Information on: Formaldehyde
Assessment of irritating effects: Corrosive! Damages skin and eyes. Depending on the concentration and duration of exposure, aqueous solutions can cause a strongly irritating or corrosive effect on the skin or eyes.

Sensitization
Assessment of 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.

Information on: Formaldehyde
Assessment of sensitization: Caused skin sensitization in animal studies. Caused sensitization in humans. OSHA (Occupational Safety and Health Administration) has classified this substance as a skin sensitizer. OSHA (Occupational Safety and Health Administration) has classified this substance as a respiratory sensitizer.

Aspiration Hazard
No aspiration hazard expected.

Chronic Toxicity/Effects
Repeated dose toxicity
Assessment of repeated dose toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

*Information on: Formaldehyde*

Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation.

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**Genetic toxicity**
Assessment of mutagenicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

**Carcinogenicity**
Assessment of 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.

*Information on: Formaldehyde*

Assessment of carcinogenicity: NTP listed carcinogen 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 and leukemia. Current regulatory information is provided in this MSDS. No adverse health effects are anticipated if recommended personal protective equipment and industrial hygiene practices are used.

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**Reproductive toxicity**
Assessment of reproduction toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

**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.

**Symptoms of Exposure**
No significant reaction of the human body to the product known.

12. Ecological Information

**Toxicity**

Aquatic toxicity
Assessment of 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.

**Persistence and degradability**

Assessment biodegradation and elimination (H2O)
The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

### Bioaccumulative potential

Bioaccumulation potential
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. Incinerate in suitable incineration plant, observing local authority 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; Not hazardous;

**NFPA Hazard codes:**
Health : 2 Fire: 1 Reactivity: 0 Special:

**HMIS III rating**
Health: 2 Flammability: 1 Physical hazard:0

### 16. Other Information

SDS Prepared by:
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END OF DATA SHEET