



The Chemical Company

Safety data sheet

ULTRAFORM® N2640 Z6 UNCOLORED POLYACETAL

Revision date : 2007/01/08

Version: 1.0

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(30046105/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; POM

2. Composition/information on ingredients

CAS Number

25214-85-1

Content (W/W)

Chemical name

polyoxymethylene copolymerizate (POM)

3. Hazard identification

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:

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.

Information on: Ultraform

Contact of the decomposition products with the eyes and skin may result in irritation. ULTRAFORM itself is harmless. Molten materials can cause thermal burns. If TPU containing grades of ULTRAFORM are subject to excessive heat, the primary decomposition products are formaldehyde and trace levels of isocyanate monomer. Acute overexposure to isocyanates may cause sensitization in some individuals, resulting in asthma like conditions. Sensitization may be permanent.

Irritation:

Irritating to eyes and skin.

Repeated dose toxicity:



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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).

4. 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:

Flush with copious amounts of water for at least 15 minutes. If irritation develops, seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting.

5. Fire-fighting measures

Flash point:

320 - 340 °C

Autoignition:

320 - 340 °C

(ASTM D1929)

Suitable extinguishing media:

water, foam, dry extinguishing media

Hazards during fire-fighting:

carbon monoxide, Formaldehyde, hydrogen cyanide, nitrogen oxides, isocyanate

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.

6. Accidental release measures

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.



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7. Handling and storage

Handling

General advice:

Processing machines must be fitted with local exhaust ventilation. Avoid inhalation of dusts/mists/vapours.

Protection against fire and explosion:

Containers should be grounded against electrostatic charge.

Storage

General advice:

Avoid extreme heat. Avoid deposition of dust.

Storage stability:

Protect against moisture.

8. Exposure controls and personal protection

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

Eye protection:

Safety glasses with side-shields.

General safety and hygiene measures:

Avoid inhalation of vapour. Wash soiled clothing immediately.

9. Physical and chemical properties

| | |
|----------------------|-------------------------------------|
| Form: | granules |
| Odour: | product specific |
| Colour: | various, depending on the colourant |
| melting range: | 163 - 169 °C (DIN EN ISO 3146) |
| Density: | 1.3 - 1.4 g/cm3 (20 °C) (DIN 53479) |
| Bulk density: | 650 - 850 kg/m3 |
| Solubility in water: | insoluble |

10. Stability and reactivity

Substances to avoid:

inorganic acids, organic acids

Hazardous reactions:

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



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Decomposition products:

Possible decomposition products: carbon monoxide, Formaldehyde, hydrogen cyanide, nitrogen oxides, isocyanates

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

Chronic toxicity

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

Environmental fate and transport

Biodegradation:

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

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.

May be disposed of or combusted with domestic refuse according to local 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



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Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory information

Federal Regulations

Registration status:

TSCA, US

released / listed

SARA hazard categories (EPCRA 311/312): Not hazardous

16. Other information

Local contact information

Tech Desk
1-800-527-8324

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