

Safety Data Sheet

ULTRAFORM® N2640 Z4 BLACK 140 Q600 POLYACETAL

Revision date : 2012/04/13

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Version: 1.0

(30192059/SDS_GEN_US/EN)

1. Product 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. Hazards 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.

State of matter: solid

Colour: black

Odour: odourless

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:

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

Sensitization:

The substance is inert.

Chronic toxicity:

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

Genotoxicity: The substance is inert.

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).

Potential environmental effects

Aquatic toxicity:

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

Degradation / environmental fate:

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

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
24969-26-4	>= 70.0 - <= 90.0 %	polyoxymethylene copolymerizate (POM)
26375-23-5	>= 15.0 - <= 30.0 %	Hexanedioic acid, polymer with 1,4-butanediol and 1,1'-methylenebis[4-isocyanatobenzene]

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)
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.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.



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6. Accidental release measures

Environmental precautions:

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

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.

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.

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. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. 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:

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.

9. Physical and Chemical Properties

Form:

pellets

Odour:

odourless



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Colour:	black	
pH value:		not soluble
melting range:	160 - 175 °C	(DIN EN ISO 3146)
Boiling range:		The substance / product decomposes therefore not determined.
Vapour pressure:		not applicable
Relative density:	1.3 - 1.4	
Bulk density:	850 kg/m3	
Solubility in water:		insoluble

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

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).



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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

Microorganisms

Toxicity to microorganisms:

DIN 38412 Part 8 aquatic

bacterium/EC10 (17 h): > 10,000 mg/l

other TS

The product has low solubility in the test medium. An eluate has been tested. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

13. Disposal considerations

Waste disposal of substance:

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

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:

Chemical

TSCA, US

released / listed

CERCLA RQ

100 LBS

CAS Number

50-00-0

Chemical name

Formaldehyde



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State regulations

CA Prop. 65:

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

16. Other Information

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.

MSDS Prepared by:

BASF NA Product Regulations

msds@basf.com

MSDS Prepared on: 2012/04/13

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