

Safety data sheet

ULTRAFORM® W2320 003 BLACK 120 POLYACETAL

Revision date : 2005/06/16

Page: 1/6

Version: 1.0

(30046162/MDS_GEN_US/EN)

1. Substance/preparation and company identification

Company

BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932

24 Hour Emergency Response Information

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

Synonyms:

Polyoxymethylene copolymer; POM

2. Composition/information on ingredients

CAS Number

25214-85-1
1333-86-4

Content (W/W)

<= 100.0 %
< 0.5 %

Chemical name

polyoxymethylene copolymerizate (POM)
carbon black

3. Hazard identification

Emergency overview

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
CAN CAUSE THERMAL BURNS.
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:

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

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 ULTRAFORM is subjected to excessive heat the primary decomposition is formaldehyde.

Repeated dose toxicity:

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



Safety data sheet

ULTRAFORM® W2320 003 BLACK 120 POLYACETAL

Revision date : 2005/06/16

Page: 2/6

Version: 1.0

(30046162/MDS_GEN_US/EN)

Information on: Carbon black

Prolonged inhalation exposures may produce cough, phlegm, tiredness, chest pain and headache. Chronic exposures have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease).

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).

Information on: Formaldehyde

The OSHA TWA for formaldehyde is 0.75 ppm. The ACGIH TLV is 1 ppm. The OSHA and ACGIH STEL is 2 ppm.

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 swallowed:

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

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,

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.



Safety data sheet

ULTRAFORM® W2320 003 BLACK 120 POLYACETAL

Revision date : 2005/06/16

Page: 3/6

Version: 1.0

(30046162/MDS_GEN_US/EN)

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.

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.

Storage**General advice:**

Avoid extreme heat. Keep container tightly closed. Avoid deposition of dust.

Storage stability:

Protect against moisture.

8. Exposure controls and personal protection

Components with workplace control parameters

carbon black	OSHA	PEL 3.5 mg/m3 ;
	ACGIH	TWA value 3.5 mg/m3 ;

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.



Safety data sheet

ULTRAFORM® W2320 003 BLACK 120 POLYACETAL

Revision date : 2005/06/16

Page: 4/6

Version: 1.0

(30046162/MDS_GEN_US/EN)

General safety and hygiene measures:

Avoid inhalation of vapour. Wash soiled clothing immediately.

9. Physical and chemical properties

Form:	pellets
Odour:	odourless
Colour:	various, depending on the colourant
Density:	1.4 g/cm ³ (20 °C) (DIN 53479)
Bulk density:	850 kg/m ³
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.

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

Inhalation:*Information on: Formaldehyde**LC50/rat: 0.578 mg/l / 4 h***Dermal:***Information on: Formaldehyde**LD50/rabbit: approx. 270 mg/kg***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.



Safety data sheet

ULTRAFORM® W2320 003 BLACK 120 POLYACETAL

Revision date : 2005/06/16

Page: 5/6

Version: 1.0

(30046162/MDS_GEN_US/EN)

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..
Due to the consistency of the product, dispersion into the environment is impossible. Therefore no negative effects on the environment may be anticipated based on the present state of knowledge.

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

Reference Bill of Lading

15. Regulatory information

Federal Regulations

Registration status:

TSCA, US

released / listed

State regulations

State RTK

CAS Number

1333-86-4

Chemical name

carbon black

State RTK

MA, NJ, PA

CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE
CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.



Safety data sheet

ULTRAFORM® W2320 003 BLACK 120 POLYACETAL

Revision date : 2005/06/16

Page: 6/6

Version: 1.0

(30046162/MDS_GEN_US/EN)

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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