

Safety data sheet

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BASF Safety data sheet

Date / Revised: 27.04.2026

Product: **ULTRAFORM® N2320 003 AT BLACK120 POLYACETAL**

Version: 4.0

(30675346/SDS_GEN_VN/EN)

Date of print: 29.05.2026

1. Substance/preparation and manufacturer/supplier identification

Product name:

ULTRAFORM® N2320 003 AT BLACK120 POLYACETAL

Recommended use: Polymer, for industrial processing only

Manufacturer/supplier:

BASF Vietnam Co. Ltd.

Level 23, Deutsches Haus, 33 Le Duan,

Sai Gon Ward, Ho Chi Minh City, Vietnam

Telephone: +84 28 3824 3833

Telefax number: +84 28 3824 3832

E-mail address: minh-triet.thieu@basf.com

Emergency information:

BASF Emergency Advice Number: 18001703 (within Vietnam)

International emergency number:

Telephone: +49 180 2273-112

Telefax number: +84 28 3824 3832

2. Hazard identification

Classification of the substance and mixture:

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

Label elements and precautionary statement:

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

Other hazards which do not result in classification:

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

Compound based on:
polyoxymethylene copolymerizate (POM)

additives

4. First-Aid Measures

General advice:
Avoid contact with the skin, eyes and clothing.

If inhaled:
If formaldehyde vapour is inhaled, remove person to fresh air and keep warm, if necessary summon physician. Inhale corticosteroid dose aerosol.

On skin contact:
Burns caused by molten material require hospital treatment.

On contact with 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.

On ingestion:
Rinse mouth and then drink 200-300 ml of water. If difficulties occur: Seek medical attention.

Note to physician:
Symptoms: (Further) symptoms and / or effects are not known so far
Hazards: No hazard is expected under intended use and appropriate handling.
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:
water spray, foam, dry powder

Specific hazards:
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.

Special protective equipment:
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

Personal precautions:

No special precautions necessary.

Environmental precautions:

Prevent releases of this product into the environment. Comprehensive instructions explaining how to prevent releases of plastics pellets, flakes, and powders to the environment during both use and disposal are provided by the industry program 'Operation Clean Sweep' (OCS).

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Pick up with suitable appliance and dispose of.

For residues: Sweep/shovel up.

Dispose of absorbed material in accordance with regulations.

Additional information: High risk of slipping due to leakage/spillage of product.

7. Handling and Storage

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.

Storage

Segregate from foods and animal feeds.

Suitable materials for containers: Low density polyethylene (LDPE), High density polyethylene (HDPE), Carbon steel (Iron)

8. Exposure controls and personal protection

Components with occupational exposure limits

Given suitable ventilation, it can be assumed that the threshold limits will not be reached.

formaldehyde, 50-00-0;

STEL value 0.3 ppm (ACGIHTLV)

TWA value 0.1 ppm (ACGIHTLV)

STEL value 1.0 mg/m³ (OEL (VN))

TWA value 0.5 mg/m³ (OEL (VN))

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Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Wear respiratory protection if ventilation is inadequate. (Combination filter EN 14387 ABEK-P3)

Hand protection:

Use additional heat protection gloves when handling hot molten masses (EN 407), e.g. of textile or leather.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:

Avoid inhalation of vapour. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. After use of gloves apply skin-cleaning agents and skin cosmetics.

9. Physical and Chemical Properties

Form:	granules	
Colour:	various, depending on the colourant	
Odour:	product specific	
Odour threshold:	not applicable	
pH value:	not applicable	
melting range:	160 - 175 °C	(DIN EN ISO 3146)
Boiling range:	The substance / product decomposes therefore not determined.	
Sublimation point:	No applicable information available.	
Flash point:	not applicable	
Evaporation rate:	The product is a non-volatile solid.	
Flammability (solid/gas):	not self-igniting	(derived from flash point)
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Ignition temperature:	320 - 340 °C	(ASTM D1929)

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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.	(TGA)
Self ignition:	not self-igniting	Test type: Spontaneous self-ignition at room-temperature.
Self heating ability:	It is not a substance capable of spontaneous heating according to UN transport regulations class 4.2.	(VDI 2263, sheet 1, 1.4.1 (May 1990))
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	not applicable	
Density:	1.4 g/cm ³ (20 °C, 1,013 hPa)	(DIN 53479)
Relative density:	Study does not need to be conducted.	
Bulk density:	850 kg/m ³ (20 °C, 1,013 hPa)	(DIN 53466)
Relative vapour density (air):	not applicable	
Solubility in water:	insoluble (20 °C, 1,013 hPa)	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Viscosity, dynamic:	not applicable, the product is a solid	
Viscosity, kinematic:	not applicable, the product is a solid	

Particle characteristics

Particle size distribution:	3 mm	(Volumetric Distribution, measured)
	spheroidal -	

10. Stability and Reactivity

Conditions to avoid:

Temperature: > 240 °C

See SDS section 7 - Handling and storage.

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Thermal decomposition: > 240 °C (TGA)
To avoid thermal decomposition, do not overheat. May decompose violently. Gaseous products of degradation can be given off if the product is greatly overheated.

Substances to avoid:
inorganic acids, organic acids

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:
Do not process with PVC or other plastics containing halogenated flame retardants. If processing with color masterbatches or functional batches is intended, the compatibility of the components must be established by suitable trials. Processing with incompatible masterbatches may result in decomposition and release of gaseous formaldehyde.
The product is chemically stable.

Possible decomposition products:
carbon monoxide, formaldehyde, carbon dioxide, water
Gaseous products of degradation can be given off if the product is greatly overheated.

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

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

11. Toxicological Information

Routes of exposure

Assessment of acute toxicity

Contact with molten product may cause thermal burns.

Symptoms

(Further) symptoms and / or effects are not known so far

Irritation

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

Experimental/calculated data:
Serious eye damage/irritation: May cause mechanical irritation.

Respiratory/Skin 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.

Germ cell mutagenicity

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.

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.

Developmental toxicity

Assessment of teratogenicity:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Specific target organ toxicity (single exposure)

not applicable

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

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.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity 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

Ecotoxicity

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.

Mobility**Assessment transport between environmental compartments:**

Adsorption to solid soil phase is not expected.

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.

Elimination information:

Poorly biodegradable.

Assessment of stability in water:

According to structural properties, hydrolysis is not expected/probable.

Bioaccumulation potential**Assessment bioaccumulation potential:**

Does not significantly accumulate in organisms.

Bioaccumulation potential:

The product will not be readily bioavailable due to its consistency and insolubility in water.

Other adverse effects**Adsorbable organically-bound halogen (AOX):**

This product contains no organically-bound halogen.

Additional information**Other ecotoxicological advice:**

The product is a polymeric compound.

13. Disposal Considerations

Information on disposal regulations: Must comply with regulations on hazardous waste such as:

- Decree No. 08/2022/ND-CP of the Government: detailing a number of articles of the Law on Environmental Protection.

- Circular No. 02/2022/TT-BTNMT of the Ministry of Natural Resources and Environment: detailing a number of articles of the Law on Environmental Protection.

Check for possible recycling.

Incinerate in suitable incineration plant, observing local authority regulations.

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Contaminated packaging:
Packs must be completely emptied.
Completely emptied packagings can be given for recycling.

14. Transport Information

Domestic transport:

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Sea transport

IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
	Marine pollutant: no
Special precautions for user	None known

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

15. Regulatory Information

Other regulations

Safety, health and environmental regulations/legislation specific for the substance or mixture Law on Chemicals No. 69/2025/QH15.

Other provisions: Safety Data Sheets (SDS) are prepared in accordance with the international regulations on classification and labeling of chemicals (GHS) as well as the relevant current legal regulations.

- QCVN 05A:2020/BCT National technical regulation on safety in production, commerce, use, storage and transportation of hazardous chemicals.
- Amendment 1:2024 QCVN 05A:2020/BCT National technical regulation on safety in production, commerce, use, storage and transportation of hazardous chemicals
- Decree 24/2026/ND-CP On the lists of chemicals governed by the law on chemicals.
- Decree 25/2026/ND-CP Elaborating the law on chemicals pertaining to development of chemical industry and chemical safety, security
- Decree 26/2026/ND-CP Elaborating the law on chemicals pertaining to management of chemical activities and dangerous chemicals in products and goods.
- Circular 01/2026/TT-BCT Providing detailed regulations and guidance on certain Articles of the Law on Chemicals and Decree No. 26/2026/ND-CP of the Government providing detailed regulations and guidance on certain Articles of the Law on Chemicals regarding the management of chemical-related operations and hazardous chemicals in products and goods
- Circular 02/2026/TT-BCT Regulations on Certain Measures for Implementing the Law on Chemicals and Government Decree No. 25/2026/ND-CP Specifying and Guiding the Implementation of Several Articles of the Law on Chemicals Regarding the Development of the Chemical Industry and Chemical Safety and Security.
- The decree No. 17/2020/ND-CP Amendments to some articles of decrees related to necessary business conditions in fields under the management of the Ministry Of Industry and Trade.
- The decree No. 34/2024/ND-CP dated March 31st 2024 of the Government on the List of dangerous goods, transportation of dangerous goods by road motor vehicles and transportation of dangerous goods on inland waterways.

16. Other Information

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.