1. Identification

Product identifier used on the label

ULTRAMID® HFX32 BLACK 00464 POLYAMIDE

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 US 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: Polyamide

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

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


Emergency overview

CAUTION:
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
INGESTION MAY CAUSE GASTRIC DISTURBANCES.
Use with local exhaust ventilation.
Respiratory protection may not be required under normal operating conditions if adequate ventilation is provided.
Wear NIOSH-certified chemical goggles.
Wear protective clothing.
Eye wash fountains and safety showers must be easily accessible.

3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>3622-84-2</td>
<td>&gt;= 7.0 - &lt; 10.0 %</td>
<td>N-butyl benzene sulphonamide</td>
</tr>
<tr>
<td>7440-66-6</td>
<td>&gt;= 0.1 - &lt; 1.0 %</td>
<td>zinc</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>3622-84-2</td>
<td>&gt;= 7.0 - &lt;= 13.0 %</td>
<td>N-butyl benzene sulphonamide</td>
</tr>
<tr>
<td>26221-73-8</td>
<td>&gt;= 5.0 - &lt;= 10.0 %</td>
<td>1-Octene, polymer with ethene</td>
</tr>
<tr>
<td>24937-78-8</td>
<td>&gt;= 1.0 - &lt;= 5.0 %</td>
<td>Acetic acid ethenyl ester, polymer with ethene (EVA)</td>
</tr>
<tr>
<td>9010-79-1</td>
<td>&gt;= 1.0 - &lt;= 5.0 %</td>
<td>Ethylene-propylene copolymer</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>&gt;= 0.1 - &lt; 1.0 %</td>
<td>carbon black</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

Description of first aid measures

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

If inhaled:
Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Consult a physician.

If on skin:
Wash thoroughly with soap and water. 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:
Rinse mouth and then drink plenty of water. Ingestion is not likely in the available physical form. If ingested, seek medical attention.

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:
Ammonium hydroxide, carbon monoxide, carbon dioxide, caprolactam, hydrogen cyanide, nitriles can be emitted at > 320 °C
Under special fire conditions traces of other toxic substances are possible. Formation of further decomposition and oxidation products depends upon the fire conditions.

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
No special precautions necessary.

Environmental precautions
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: Pick up with suitable appliance and dispose of.
For large amounts: Pick up with suitable appliance and dispose of.
7. Handling and Storage

**Precautions for safe handling**
Avoid inhalation of dusts/mists/vapours.

**Protection against fire and explosion:**
Take precautionary measures against static discharges.

**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), Stainless steel, aluminum

Further information on storage conditions: Keep container tightly closed. Avoid deposition of dust. Protect against moisture.

Storage stability:
Protect against moisture.

8. Exposure Controls/Personal Protection

**Components with occupational exposure limits**

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>carbon black</td>
<td>PEL 3.5 mg/m3 ; TWA value 3.5 mg/m3</td>
<td>TWA value 3.5 mg/m3 ; TWA value 3 mg/m3 Inhalable fraction</td>
</tr>
</tbody>
</table>

**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.

**Hand protection:**
Wear gloves to prevent contact during mechanical processing and/or hot melt conditions.

**Eye protection:**
Tightly fitting safety goggles (chemical goggles).

**Body protection:**
Body protection must be chosen based on level of activity and exposure.

**General safety and hygiene measures:**
Avoid inhalation of dust. Wash soiled clothing immediately.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>pellets</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>not applicable</td>
</tr>
<tr>
<td>Colour</td>
<td>black</td>
</tr>
<tr>
<td>pH value</td>
<td>not applicable</td>
</tr>
</tbody>
</table>
Melting temperature: approx. 220 °C (DIN 53765)  
Boiling range: The substance / product decomposes therefore not determined.  
Sublimation point: No applicable information available.  
Flash point: > 400 °C  
Flammability: not self-igniting  
Flammability of Aerosol Products: not applicable, the product does not form flammable aerosoles)  
Lower explosion limit: The substance / product decomposes therefore not determined.  
Upper explosion limit: The substance / product decomposes therefore not determined.  
Autoignition: > 400 °C (ASTM D1929)  
Vapour pressure: not applicable  
Density: 1.00 - 1.20 g/cm3 (20 °C) (EN ISO 1183-1)  
Relative density: No data available.  
Bulk density: 500 - 800 kg/m3  
Vapour density: not applicable  
Partitioning coefficient n-octanol/water (log Pow): not applicable  
Self-ignition temperature: not self-igniting  
Thermal decomposition: > 320 °C (TGA)  
Viscosity, dynamic: not applicable, the product is a solid  
Viscosity, kinematic: not applicable, the product is a solid  
Solubility in water: insoluble  
Solubility (quantitative): No applicable information available.  
Solubility (qualitative): No applicable information available.  
Evaporation rate: The product is a non-volatile solid.  

10. Stability and Reactivity

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

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

Possibility of hazardous reactions
The product is chemically stable.
No hazardous reactions known.

Conditions to avoid
Temperature: > 320 degrees Celsius

Incompatible materials
No substances known that should be avoided.

Hazardous decomposition products
Decomposition products:
Hazardous decomposition products: Ammonium hydroxide, carbon monoxide, carbon dioxide, caprolactam, hydrogen cyanide, nitriles

Thermal decomposition:
> 320 °C (TGA)
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.

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

Inhalation
Not inhalable due to the physico-chemical properties of the product.

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

Assessment other acute effects
No applicable information available.

Irritation / corrosion
Assessment of irritating effects: Irritation is possible when the product comes in contact with the skin, respiratory tract or the eyes.

Eye
May cause mechanical irritation.

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.

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.

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: carbon black
Assessment of carcinogenicity: IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term animal studies in which the substance was given by inhalation in high concentrations, a carcinogenic effect was observed. A clear indication of an increased risk of cancer in humans has so far not been shown. No carcinogenic potential can be deduced from other studies with rats and mice.

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:
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.

Persistence and degradability
Assessment biodegradation and elimination (H2O)
Experience shows this product to be inert and non-degradable.

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.
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;

CERCLA RQ  CAS Number  Chemical name
5000 LBS  67-64-1; 108-31-6  Acetone; maleic anhydride
1000 LBS  7440-66-6  zinc
100 LBS  75-65-0  2-methylpropan-2-ol

State regulations

State RTK  CAS Number  Chemical name
MA, NJ, PA  1333-86-4  carbon black

CA Prop. 65:
WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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

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

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
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