1. Identification

Product identifier used on the label

ULTRAMID® 8232GHS FR BLACK 102 POLYAMIDE

Recommended use of the chemical and restriction on use

Recommended use*: Polymer
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 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

Chemical family: polyamide
Synonyms: Polyamide (PA 6)

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. The dangerous ingredients are fixed in a polymer matrix.

Hazards not otherwise classified

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

### 3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1309-64-4</td>
<td>&gt;= 7.0 - &lt; 10.0%</td>
<td>diantimony trioxide</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>&gt;= 1.0 - &lt; 3.0%</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:**
If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

**If on skin:**
Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention. 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 200-300 ml of water. Ingestion is not likely in the available physical form. If ingested, seek medical attention. Do not induce vomiting.

**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, carbon dioxide

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
No special precautions necessary.

Methods and material for containment and cleaning up
Reclaim for processing if possible. Sweep/shovel up. Place into suitable containers for reuse or disposal in a licensed facility.

7. Handling and Storage

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

Protection against fire and explosion:
No explosion proofing necessary.

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), Aluminium, Carbon steel (Iron)

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>diantimony trioxide</td>
<td>PEL 0.5 mg/m³ (antimony (Sb)); TWA value 0.5 mg/m³ (antimony (Sb));</td>
<td>TWA value 0.5 mg/m³ (antimony (Sb));</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Included in the regulation, but with no data values.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>See the regulation for further details.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exposure by all routes should be carefully controlled to levels as low as possible.</td>
</tr>
<tr>
<td>carbon black</td>
<td>PEL 3.5 mg/m³ TWA value 3.5 mg/m³;</td>
<td>TWA value 3 mg/m³ Inhalable fraction;</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td></td>
<td>TWA value 5 mg/m³ Inhalable fraction TWA value 1 fibers/cm³ Fiber; TWA value 0.2 fibers/cm³ Fiber;</td>
</tr>
</tbody>
</table>

Advice on system design:
Provide local exhaust ventilation to control dusts/vapours.

Personal protective equipment

Respiratory protection:
Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) 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).

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

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
Odour threshold: not applicable
Colour: various, depending on the colourant
pH value: not applicable
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
- Flammability: not self-igniting (derived from flash point)
- Flammability of Aerosol: not applicable, the product does not form flammable aerosoles
- Lower explosion limit: For solids not relevant for classification and labelling.
- Upper explosion limit: No applicable information available.
- Autoignition: > 400 °C (ASTM D1929)
- Vapour pressure: not applicable
- Density: 1.10 - 1.60 g/cm³ (20 °C) (EN ISO 1183-1)
- Relative density: Study does not need to be conducted.
- 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.

**Oxidizing properties:**
- not fire-propagating

**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: Thermal decomposition products of the substance can irritate the eyes, skin, and respiratory tract.

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: diantimony trioxide
Assessment of carcinogenicity: IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

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.

Aquatic toxicity

Information on: Glass, oxide, chemicals
Assessment of aquatic toxicity: There is a high probability that the product is not acutely harmful to aquatic organisms. Based on long-term (chronic) toxicity study data, the product is very likely not 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. Dispose of in a licensed facility. Observe all 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

**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):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

**State regulations**

<table>
<thead>
<tr>
<th>State RTK</th>
<th>CAS Number</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>NJ</td>
<td>1333-86-4</td>
<td>carbon black</td>
</tr>
<tr>
<td></td>
<td>65997-17-3</td>
<td>Glass, oxide, chemicals</td>
</tr>
<tr>
<td>PA</td>
<td>1309-64-4</td>
<td>diantimony trioxide</td>
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</table>

**Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

**WARNING:** This product can expose you to chemicals including LEAD, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

**NFPA Hazard codes:**
Health: 1  Fire: 1  Reactivity: 0  Special:
16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2018/12/17

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