1. Identification

Product identifier used on the label

**PETRA® 230 BK112**

**Recommended use of the chemical and restriction on use**
Recommended use*: Polymer; for industrial processing only

* 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: polyester
Synonyms: POLYESTER RESIN

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.

Labeling of special preparations (GHS):
UNDER HOT MELT PROCESSING CONDITIONS, WEAR PERSONAL PROTECTIVE EQUIPMENT TO PREVENT THERMAL BURNS.

3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>25068-38-6</td>
<td>&gt;= 0.3 - &lt; 1.0%</td>
<td>bisphenol A-epichlorohydrin resin</td>
</tr>
<tr>
<td>25038-59-9</td>
<td>&gt;= 0.0 - &lt; 75.0%</td>
<td>Polyethylene terephthalate (PET)</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>&gt;= 0.1 - &lt; 0.3%</td>
<td>carbon black</td>
</tr>
<tr>
<td>12001-26-2</td>
<td>&gt;= 10.0 - &lt; 20.0%</td>
<td>Mica-group minerals</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

If on skin:
Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

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:
Ingestion is not likely in the available physical form. If ingested, seek medical attention. Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting. Immediate medical attention required.

Most important symptoms and effects, both acute and delayed

Symptoms: (Further) symptoms and / or effects are not known so far
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 according to symptoms (decontamination, vital functions), no known specific antidote.
5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, dry powder, carbon dioxide, foam

Special hazards arising from the substance or mixture
Hazards during fire-fighting:
No particular hazards known.

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

Personal precautions, protective equipment and emergency procedures
Use personal protective clothing.

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
Reclaim for processing if possible. Sweep/shovel up. Place into suitable containers for reuse or disposal in a licensed facility. Dispose of in accordance with national, state and local regulations.

7. Handling and Storage

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

Protection against fire and explosion:
The product is capable of dust explosion. No explosion proofing necessary.

Containers should be grounded against electrostatic charge.

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)

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

Storage stability:
Protect against moisture.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits
carbon black  
OSHA PEL 3.5 mg/m³ ; TWA value 3.5 mg/m³
ACGIH TLV TWA value 3 mg/m³ Inhalable fraction

Mica-group minerals  
OSHA PEL TWA value 3 mg/m³ Respirable dust ; TWA value 20 millions of particles per cubic foot of air
ACGIH TLV TWA value 3 mg/m³ Respirable fraction

Glass, oxide, chemicals  
ACGIH TLV TWA value 5 mg/m³ Inhalable fraction ; TWA value 1 fibers/cm³ Fiber ; TWA value 0.2 fibers/cm³ Fiber

Advice on system design:  
Ensure adequate ventilation.

Personal protective equipment

Respiratory protection:  
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 dusts/mists/vapours.

9. Physical and Chemical Properties

Form: pellets
Odour: odourless
Odour threshold: not applicable
Colour: The colour is derived from the trade name.
pH value: not applicable
Melting temperature: approx. 245 °C (DIN EN ISO 3146)
Boiling range: The substance / product decomposes therefore not determined.
Sublimation point: No applicable information available.
Flash point: > 400 °C (closed cup)
Flammability: No applicable information available.
Flammability of Aerosol Products: not applicable, the product does not form flammable aerosoles
Lower explosion limit: No applicable information available.
Upper explosion limit: No applicable information available.
Autoignition: not applicable
Vapour pressure: not applicable
Density: 1.40 - 1.75 g/cm³ (EN ISO 1183-1) (20 °C)
10. Stability and Reactivity

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

Corrosion to metals:
No corrosive effect on metal.

Oxidizing properties:
not fire-propagating

Chemical stability
The product is chemically stable.

Possibility of hazardous reactions
The product is chemically stable.

Conditions to avoid
Avoid prolonged exposure to extreme heat.

Incompatible materials

Hazardous decomposition products

Decomposition products:
Possible thermal decomposition products:
hydrogen cyanide, carbon monoxide, ammonia

Thermal decomposition:
> 300 °C
May decompose if overheated and/or subjected to prolonged heating.

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.

**Sensitization**
Assessment of sensitization: No applicable information available.

Chronic Toxicity/Effects

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

**Genetic toxicity**
Assessment of mutagenicity: No data available concerning mutagenic effects.

**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.

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**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**

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

**Medical conditions aggravated by overexposure**

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See MSDS section 11 - Toxicological information.

### 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.

**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:**

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

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

<table>
<thead>
<tr>
<th>State regulations</th>
<th>CAS Number</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>NJ</td>
<td>12001-26-2</td>
<td>Mica-group minerals</td>
</tr>
<tr>
<td></td>
<td>65997-17-3</td>
<td>Glass, oxide, chemicals</td>
</tr>
<tr>
<td></td>
<td>1333-86-4</td>
<td>carbon black</td>
</tr>
<tr>
<td>PA</td>
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</tr>
<tr>
<td></td>
<td>65997-17-3</td>
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</tr>
</tbody>
</table>

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

**WARNING:** This product can expose you to chemicals including GLASS WOOL FIBERS (INHALABLE AND BIOPERSISTENT), which is known to the State of California to cause cancer, and METHANOL, which is known to the State of California to cause 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:

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

16. Other Information

**SDS Prepared by:**
BASF NA Product Regulations
SDS Prepared on: 2019/04/08

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