

# Safety Data Sheet

## PETRA® 230 BK112

Revision date : 2013/05/07

Version: 2.0

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(30215366/SDS\_GEN\_US/EN)

### 1. Product and Company Identification

Company

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

Synonyms:

POLYESTER RESIN

### 2. Hazards Identification

Emergency overview

## CAUTION:

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
INGESTION MAY CAUSE GASTRIC DISTURBANCES.

Use with local exhaust ventilation.

Wear a NIOSH-certified (or equivalent) particulate respirator.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

State of matter: solid

Colour: The colour is derived from the trade name.

Odour: odourless

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.

**Irritation / corrosion:**

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

**Sensitization:**

No data available concerning sensitizing effects. provisional classification.

**Chronic toxicity:**

**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.



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

**Reproductive 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.

**Genotoxicity:** No data available concerning mutagenic effects. provisional classification.

**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.

**Potential environmental effects**

**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.

**Degradation / environmental fate:**

Experience shows this product to be inert and non-degradable.

### 3. Composition / Information on Ingredients

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u>                                                                      |
|-------------------|----------------------|-------------------------------------------------------------------------------------------|
| 25038-59-9        | 50.0 - 70.0 %        | Polyethyleneterephthalate (PET)                                                           |
| 65997-17-3        | 15.0 - 30.0 %        | Glass, oxide, chemicals                                                                   |
| 12001-26-2        | 10.0 - 20.0 %        | Mica-group minerals                                                                       |
| 25103-74-6        | 1.0 - 5.0 %          | 2-Propenoic acid, methyl ester, polymer with ethene                                       |
| 25750-82-7        | 1.0 - 5.0 %          | 2-Propenoic acid, polymer with ethene, sodium salt                                        |
| 9004-93-7         | 1.0 - 5.0 %          | Poly(oxy-1,2-ethanediyl), .alpha.-(2-ethyl-1-oxohexyl)-.omega.-[(2-ethyl-1-oxohexyl)oxy]- |
| 1333-86-4         | 0.1 - 1.0 %          | carbon black                                                                              |

### 4. 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. Immediate medical attention required.

**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:**

Rinse mouth and then drink plenty of water. Induce vomiting. Immediate medical attention required.

### 5. Fire-Fighting Measures

|                            |          |                   |
|----------------------------|----------|-------------------|
| Flash point:               | > 400 °C | (closed cup)      |
| Autoignition:              |          | not applicable    |
| Self-ignition temperature: |          | not self-igniting |



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

**Hazards during fire-fighting:**

No particular hazards known.

**Protective equipment for fire-fighting:**  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

## 6. Accidental release measures

**Personal precautions:**  
Use personal protective clothing.

**Environmental precautions:**  
This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

**Cleanup:**  
Reclaim for processing if possible. Sweep/shovel up. Place into suitable containers for reuse or disposal in a licensed facility.

## 7. Handling and Storage

**Handling**

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

**Storage**

**General advice:**  
Keep container tightly closed. Avoid deposition of dust.

**Storage stability:**  
Protect against moisture.

## 8. Exposure Controls and Personal Protection

**Components with occupational exposure limits**

|                         |       |                                                                                                                                                                           |
|-------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| carbon black            | OSHA  | PEL 3.5 mg/m3 ;                                                                                                                                                           |
|                         | ACGIH | TWA value 3.5 mg/m3 ;                                                                                                                                                     |
| Mica-group minerals     | OSHA  | TWA value 20 millions of particles per cubic foot of air ;                                                                                                                |
|                         | ACGIH | TWA value 3 mg/m3 Respirable fraction ;                                                                                                                                   |
| Glass, oxide, chemicals | ACGIH | TWA value 5 mg/m3 Inhalable fraction ; TWA value 1 fibers/cm <sup>3</sup> Fiber ; TWA value 1 fibers/cm <sup>3</sup> Fiber ; TWA value 0.2 fibers/cm <sup>3</sup> Fiber ; |

**Advice on system design:**  
Ensure adequate ventilation.

**Personal protective equipment**

**Respiratory protection:**  
Wear a NIOSH-certified (or equivalent) particulate respirator.



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### Hand protection:

Wear gloves to prevent contact during mechanical processing and/or hot melt conditions.

### Eye protection:

Tightly fitting safety goggles (chemical goggles).

### General safety and hygiene measures:

Wear protective clothing to prevent contact during mechanical processing and/or hot melt conditions. Avoid inhalation of dust.

## 9. Physical and Chemical Properties

|                      |                                            |                                                              |
|----------------------|--------------------------------------------|--------------------------------------------------------------|
| Form:                | pellets                                    |                                                              |
| Odour:               | odourless                                  |                                                              |
| 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. |
| Vapour pressure:     |                                            | not applicable                                               |
| Density:             | 1.40 - 1.75 g/cm3                          | ( 20 °C) (EN ISO 1183-1)                                     |
| Relative density:    | 1.05 - 1.25                                |                                                              |
| Bulk density:        | 600 - 900 kg/m3                            |                                                              |
| Solubility in water: |                                            | insoluble                                                    |

## 10. Stability and Reactivity

### Conditions to avoid:

Avoid prolonged exposure to extreme heat.

### Hazardous reactions:

The product is chemically stable.

### 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.

### Corrosion to metals:

No corrosive effect on metal.

## 11. Toxicological information

### Irritation / corrosion

Information on: Glass, oxide, chemicals

Assessment of irritating effects:

Skin contact causes irritation. EU-classification

### Repeated dose toxicity

Information on: Mica-group minerals

Assessment of repeated dose toxicity:

Chronic exposures have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease).



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*Information on: carbon black*

*Assessment of repeated dose toxicity:*

*Chronic exposures have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease). The substance may cause increase in lung mass and lung tissue changes after repeated inhalation. Repeated oral uptake of the substance did not cause substance-related effects. Repeated dermal uptake of the substance did not cause substance-related effects.*

### Carcinogenicity

*Information on: Glass, oxide, chemicals*

*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*

*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.*

### 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.

## 12. Ecological Information

### Bioaccumulation

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



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**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;

### State regulations

**State RTK**

MA, NJ, PA  
MA, NJ, PA  
MA, NJ, PA

**CAS Number**

65997-17-3  
12001-26-2  
1333-86-4

**Chemical name**

Glass, oxide, chemicals  
Mica-group minerals  
carbon black

**CA Prop. 65:**

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

## 16. Other Information

**HMIS III rating**

Health: 1 Flammability: 1 Physical hazard: 0

NFPA and HMIS use 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 extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

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**SDS Prepared by:**

BASF NA Product Regulations  
msds@basf.com  
SDS Prepared on: 2013/05/07

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