

# Safety Data Sheet

## PETRA® 230 BK112

Revision date : 2023/07/28

Version: 9.0

Page: 1/9

(30215366/SDS\_GEN\_US/EN)

### 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

##### 24 Hour Emergency Response Information

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

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

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

#### Label elements

# Safety Data Sheet

## PETRA® 230 BK112

Revision date: 2023/07/28  
Version: 9.0

Page: 2/9  
(30215366/SDS\_GEN\_US/EN)

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

### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Polyethyleneterephthalate (PET)

CAS Number: 25038-59-9

Content (W/W):  $\geq 50.0$  -  $< 75.0\%$

Synonym: Poly(oxy-1,2-ethanedioxydicarbonyl-1,4-phenylenecarbonyl)-

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane

CAS Number: 25068-38-6

Content (W/W):  $\geq 0.3$  -  $< 1.0\%$

Synonym: 4,4'-(1-Methylethylidene)bisphenol polymer with (chloromethyl)oxirane

## 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: No data available.

Hazards: No hazard is expected under intended use and appropriate handling.

# Safety Data Sheet

## PETRA® 230 BK112

Revision date: 2023/07/28  
Version: 9.0

Page: 3/9  
(30215366/SDS\_GEN\_US/EN)

### 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

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. 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)

# Safety Data Sheet

## PETRA® 230 BK112

Revision date: 2023/07/28  
Version: 9.0

Page: 4/9  
(30215366/SDS\_GEN\_US/EN)

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	ACGIH, US: OSHA Z1:	TWA value 3 mg/m <sup>3</sup> Inhalable fraction ; PEL 3.5 mg/m <sup>3</sup> ;
Mica-group minerals	OSHA Z3: ACGIH, US: OSHA Z1: OSHA Z1:	TWA value 20 millions of particles per cubic foot of air ; TWA value 0.1 mg/m <sup>3</sup> Respirable fraction ; PEL 15 mg/m <sup>3</sup> Total dust ; PEL 5 mg/m <sup>3</sup> Respirable fraction ;
Glass, oxide, chemicals	ACGIH, US: ACGIH, US: ACGIH, US:	TWA value 5 mg/m <sup>3</sup> Inhalable fraction ; TWA value 0.2 fibers/cm <sup>3</sup> Fiber ; TWA value 1 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.

**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

# Safety Data Sheet

## PETRA® 230 BK112

Revision date: 2023/07/28  
Version: 9.0

Page: 5/9  
(30215366/SDS\_GEN\_US/EN)

Melting temperature:	approx. 245 °C	(DIN EN ISO 3146)
Freezing point:	No data available.	
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/cm <sup>3</sup> ( 20 °C)	(EN ISO 1183-1)
Relative density:	1.05 - 1.25	
Bulk density:	600 - 900 kg/m <sup>3</sup>	
Vapour density:	not applicable	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Self-ignition temperature:	not self-igniting	
Thermal decomposition:	> 300 °C May decompose if overheated and/or subjected to prolonged heating.	
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.

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

# Safety Data Sheet

## PETRA® 230 BK112

Revision date: 2023/07/28  
Version: 9.0

Page: 6/9  
(30215366/SDS\_GEN\_US/EN)

### 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

# Safety Data Sheet

## PETRA® 230 BK112

Revision date: 2023/07/28  
Version: 9.0

Page: 7/9  
(30215366/SDS\_GEN\_US/EN)

*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.

### 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 SDS 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 (H<sub>2</sub>O)

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.

# Safety Data Sheet

## PETRA® 230 BK112

Revision date: 2023/07/28  
Version: 9.0

Page: 8/9  
(30215366/SDS\_GEN\_US/EN)

### 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 / exempt

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

#### State regulations

**State RTK**

PA

**CAS Number**

111-46-6

12001-26-2

65997-17-3

1333-86-4

NJ

12001-26-2

65997-17-3

1333-86-4

**Chemical name**

diethylene glycol

Mica-group minerals

Glass, oxide, chemicals

carbon black

Mica-group minerals

Glass, oxide, chemicals

carbon black

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

**WARNING:** This product can expose you to chemicals including CARBON BLACK (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE [ $\leq$  10 MICROMETERS]), 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](http://www.P65Warnings.ca.gov).

**NFPA Hazard codes:**

Health: 1 Fire: 1 Reactivity: 0 Special:

**HMIS III rating**

Health: 1 Flammability: 1 Physical hazard: 0



# Safety Data Sheet

## PETRA® 230 BK112

Revision date: 2023/07/28  
Version: 9.0

Page: 9/9  
(30215366/SDS\_GEN\_US/EN)

---

### 16. Other Information

**SDS Prepared by:**  
BASF NA Product Regulations  
SDS Prepared on: 2023/07/28

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

---

PETRA is a registered trademark of BASF Corporation or BASF SE  
IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.  
END OF DATA SHEET