

# Safety Data Sheet

## ULTRASON® E 1010 NATURAL POLYARYLETHERSULFONE

Revision date : 2018/01/01

Page: 1/8

Version: 4.0

(30047122/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## ULTRASON® E 1010 NATURAL POLYARYLETHERSULFONE

#### 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 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: polyether  
Synonyms: polyethersulfone

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### 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

## ULTRASON® E 1010 NATURAL POLYARYLETHERSULFONE

Revision date : 2018/01/01

Page: 2/8

Version: 4.0

(30047122/SDS\_GEN\_US/EN)

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.

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## 3. Composition / Information on Ingredients

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

Under the referenced regulation, this product does not contain any components classified for health hazards above the relevant cut off value.

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## 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:

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. 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.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:

water spray, carbon dioxide, dry powder, foam

# Safety Data Sheet

## ULTRASON® E 1010 NATURAL POLYARYLETHERSULFONE

Revision date : 2018/01/01

Page: 3/8

Version: 4.0

(30047122/SDS\_GEN\_US/EN)

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon monoxide, Sulphur dioxide, can be emitted at > 400 °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.

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## 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.

Reclaim for processing if possible.

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## 7. Handling and Storage

### Precautions for safe handling

No applicable information available.

Protection against fire and explosion:

No explosion proofing necessary.

### Conditions for safe storage, including any incompatibilities

No applicable information available.

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.

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## 8. Exposure Controls/Personal Protection

No occupational exposure limits known.

### Advice on system design:

Provide local exhaust ventilation to control dusts/vapours.

# Safety Data Sheet

## ULTRASON® E 1010 NATURAL POLYARYLETHERSULFONE

Revision date : 2018/01/01

Page: 4/8

Version: 4.0

(30047122/SDS\_GEN\_US/EN)

### Personal protective equipment

#### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) particulate respirator. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination.

#### **Hand protection:**

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

#### **Eye protection:**

Safety glasses with side-shields.

#### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### **General safety and hygiene measures:**

Wear protective clothing to prevent contact during mechanical processing and/or hot melt conditions. Wash soiled clothing immediately.

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## 9. Physical and Chemical Properties

|   |   |                 |
|---|---|-----------------|
| Form:   | pellets   |                 |
| Odour:  | odourless   |                 |
| Odour threshold:                                    | not applicable  |                 |
| Colour:   | light yellow to brownish                                      |                 |
| pH value:   | not applicable  |                 |
| glass transition temperature:                       | 225 °C  |                 |
| Boiling range:                                      | The substance / product decomposes therefore not determined.  |                 |
| Sublimation point:                                  | No applicable information available.                          |                 |
| Flash point:  | not applicable  |                 |
| Flammability:                                       | not self-igniting   |                 |
| Flammability of Aerosol Products:                   | not applicable, the product does not form flammable aerosoles |                 |
| Lower explosion limit:                              | For solids not relevant for classification and labelling.     |                 |
| Upper explosion limit:                              | For solids not relevant for classification and labelling.     |                 |
| Autoignition:                                       | 580 - 600 °C  | (DIN 54836)     |
| Vapour pressure:                                    | not applicable  |                 |
| Density:  | 1.30 - 1.40 g/cm <sup>3</sup><br>( 20 °C)                     | (EN ISO 1183-1) |
| Relative density:                                   | Study does not need to be conducted.                          |                 |
| Bulk density:                                       | 700 - 800 kg/m <sup>3</sup>                                   |                 |
| Vapour density:                                     | not applicable  |                 |
| Partitioning coefficient n-octanol/water (log Pow): | not applicable  |                 |
| Self-ignition temperature:                          | not self-igniting   |                 |

# Safety Data Sheet

## ULTRASON® E 1010 NATURAL POLYARYLETHERSULFONE

Revision date : 2018/01/01

Page: 5/8

Version: 4.0

(30047122/SDS\_GEN\_US/EN)

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|                            |  |
|----------------------------|--|
| Thermal decomposition:     | > 400 °C<br>Thermal decomposition above the indicated temperature is possible. |
| 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.   |

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### 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 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: > 400 degrees Celsius

#### Incompatible materials

No substances known that should be avoided.

#### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: carbon monoxide, phenol, carbon dioxide, sulphur trioxide, Water, Benzenesulfonic acid, 2(or 4)-methyl-, Sulphur dioxide, Gaseous products of degradation can be given off if the product is greatly overheated.

Thermal decomposition:

> 400 °C

Thermal decomposition above the indicated temperature is possible.

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### 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

# Safety Data Sheet

## ULTRASON® E 1010 NATURAL POLYARYLETHERSULFONE

Revision date : 2018/01/01

Page: 6/8

Version: 4.0

(30047122/SDS\_GEN\_US/EN)

### Acute toxicity

Assessment of acute toxicity: Contact with molten product may cause thermal burns. The resin in pelleted form poses a low hazard.

### Inhalation

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

### Dermal

Type of value: ATE

Value: > 5,000 mg/kg

### 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**

### 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.

### 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.

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## **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.

# Safety Data Sheet

## ULTRASON® E 1010 NATURAL POLYARYLETHERSULFONE

Revision date : 2018/01/01

Page: 7/8

Version: 4.0

(30047122/SDS\_GEN\_US/EN)

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

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### 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.

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### 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

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### 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.

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

**WARNING:** This product can expose you to chemicals including N-METHYLPYRROLIDONE, 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).

[Other Prop 65 components may be present in the product.]

**NFPA Hazard codes:**

Health: 1 Fire: 1 Reactivity: 0 Special:

**HMIS III rating**

Health: 1 Flammability: 1 Physical hazard: 0

# Safety Data Sheet

## ULTRASON® E 1010 NATURAL POLYARYLETHERSULFONE

Revision date : 2018/01/01

Page: 8/8

Version: 4.0

(30047122/SDS\_GEN\_US/EN)

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### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2018/01/01

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.

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