

# Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 07.03.2012

Version: 3.0

Product: **ULTRASON® E 2010 NATURAL POLYARYLETHERSULFONE**

(ID no. 30047224/SDS\_GEN\_EU/EN)

Date of print 08.03.2012

## 1. Identification of the substance/mixture and of the company/undertaking

### Product identifier

## ULTRASON® E 2010 NATURAL POLYARYLETHERSULFONE

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Polymer

Recommended use: Polymer, for industrial processing only

### Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Engineering Plastics Europe

Telephone: +49 621 60-78780

E-mail address: [ultraplaste.infopoint@basf.com](mailto:ultraplaste.infopoint@basf.com)

### Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## 2. Hazards Identification

### Label elements

Globally Harmonized System, EU (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

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According to Directive 67/548/EEC or 1999/45/EC

The product does not require a hazard warning label in accordance with EC Directives.

### **Classification of the substance or mixture**

According to Regulation (EC) No 1272/2008 [CLP]

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

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:

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

Danger of burns while handling the hot product.

### **Other hazards**

According to Regulation (EC) No 1272/2008 [CLP]

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

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## **3. Composition/Information on Ingredients**

### **Mixtures**

Chemical nature

Preparation based on: Polyethersulfone (PESU)

additives, fillers

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## **4. First-Aid Measures**

### **Description of first aid measures**

On skin contact:

Burns caused by molten material require hospital treatment.

### **Most important symptoms and effects, both acute and delayed**

Symptoms: No significant reaction of the human body to the product known.

### **Indication of any immediate medical attention and special treatment needed**

Treatment: Treat symptomatically.

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## **5. Fire-Fighting Measures**

### **Extinguishing media**

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Suitable extinguishing media:  
water spray, foam, dry powder

### **Special hazards arising from the substance or mixture**

At temperatures of > 400 °C can be emitted: carbon monoxide, sulphur dioxide  
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**

Further information:  
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## **6. 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**

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.

### **Reference to other sections**

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## **7. Handling and Storage**

### **Precautions for safe handling**

Protection against fire and explosion:  
Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities:  
Suitable materials for containers: Low density polyethylene (LDPE)

### **Specific end use(s)**

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## **8. Exposure Controls/Personal Protection**

### **Control parameters**

Components with workplace control parameters

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The limit values will not be achieved if the product is processed proper and suitable ventilation is provided.

## Exposure controls

### Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Wear respiratory protection if ventilation is inadequate.

Hand protection:

Use additional heat protection gloves when handling hot molten masses (EN 407), e.g. of textile or leather.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

### General safety and hygiene measures

No special precautions necessary.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form:	granules	
Colour:	light yellow to brownish	
Odour:	odourless	
Odour threshold:	not applicable	
pH value:	not applicable	
glass transition temperature:	225 °C	
Boiling range:	The substance / product decomposes therefore not determined.	
Flash point:	not applicable	
Evaporation rate:	not applicable	
Ignition temperature:	580 - 600 °C	(DIN 54836)
Vapour pressure:	not applicable	
Density:	1.30 - 1.40 g/cm <sup>3</sup> (20 °C)	(EN ISO 1183-1)
Relative density:	No data available.	
Relative vapour density (air):	not applicable	
Solubility in water:	insoluble	
Partitioning coefficient n-octanol/water (log Kow):	not applicable	
Self ignition:	not self-igniting	

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Thermal decomposition: > 400 °C

Thermal decomposition above the indicated temperature is possible.

### Other information

Bulk density: 700 - 800 kg/m<sup>3</sup>

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## 10. Stability and Reactivity

### Reactivity

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

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions known.

The product is chemically stable.

### Conditions to avoid

Temperature: > 400 °C

### Incompatible materials

Substances to avoid:

No substances known that should be avoided.

### Hazardous decomposition products

Hazardous decomposition products:

carbon monoxide, sulphur dioxide

Gaseous products of degradation can be given off if the product is greatly overheated.

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## 11. Toxicological Information

### Information on toxicological effects

#### Acute toxicity

Assessment of acute toxicity:

Contact with molten product may cause thermal burns.

#### Irritation

Assessment of irritating effects:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Experimental/calculated data:

Serious eye damage/irritation: May cause mechanical irritation.

Respiratory/Skin 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.

Germ cell mutagenicity

## 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.

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.

Specific target organ toxicity (single exposure)

## Assessment of STOT single:

not applicable

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

## 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.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity 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.

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## 12. Ecological Information

### 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.

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.

### **Mobility in soil (and other compartments if available)**

Assessment transport between environmental compartments:  
Study scientifically not justified.

### **Results of PBT and vPvB assessment**

The product does not fulfill the criteria for PBT (persistent/bioaccumulative/toxic) or vPvB (very persistent/very bioaccumulative).

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## **13. Disposal Considerations**

### **Waste treatment methods**

Check for possible recycling.  
Incinerate in suitable incineration plant, observing local authority regulations.

Contaminated packaging:  
Packs must be completely emptied.

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## **14. Transport Information**

### **Land transport**

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

### **Inland waterway transport**

ADN

Not classified as a dangerous good under transport regulations

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### **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**

### **Safety, health and environmental regulations/legislation specific for the substance or mixture**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

### **Chemical Safety Assessment**

Chemical Safety Assessment not required

Product is not classified as hazardous.

A safety data sheet for this product is legally not required and is provided by us just as a courtesy to our customers.

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## **16. Other Information**

In addition to the information given in the safety data sheet we refer to the product specific 'Technical Information'.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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Vertical lines in the left hand margin indicate an amendment from the previous version.