Safety Data Sheet
ULTRASON® E 6020 P POLYARYLETHERSULFONE

1. Product and Company Identification

Use: Polymer

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

Synonyms: Poly ether sulfone

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 NIOSH-certified chemical goggles.
Wear protective clothing.
Eye wash fountains and safety showers must be easily accessible.

State of matter: solid
Colour: white
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:
Thermal decomposition products of the substance can irritate the eyes, skin, and respiratory tract.

Sensitization:
The substance is inert.

Chronic toxicity:

Carcinogenicity: The substance is inert.

Genotoxicity: The substance is inert.

Signs and symptoms of overexposure:
No significant reaction of the human body to the product known.

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.

3. Composition / Information on Ingredients

CAS Number	Content (W/W)	Chemical name
25608-63-3	> 98.0 %	Polyethersulfone (PESU)

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. Consult a physician.

If on skin:
Burns caused by molten material require hospital treatment.

If in eyes:
If irritation develops, seek medical attention. In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water.

If swallowed:
Ingestion is not likely in the available physical form. If ingested, seek medical attention. Consult a physician.

5. Fire-Fighting Measures

Flash point:		not applicable
Autoignition:	580 - 600 °C	(DIN 54836)
Self-ignition temperature:		not self-igniting

Suitable extinguishing media:
water spray, foam, dry powder

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.

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. Dust can form an explosive mixture with air.

6. Accidental release measures

Cleanup:
For small amounts: Pick up with suitable appliance and dispose of.
For large amounts: Pick up with suitable appliance and dispose of.

Further information:
High risk of slipping due to leakage/spillage of product. Dust can form an explosive mixture with air.

7. Handling and Storage

Handling

Protection against fire and explosion:
Take precautionary measures against static discharges. Use antistatic tools. Avoid whirling up the material/product because of the danger of dust explosion. Accumulation of fine dust may entail the risk of a dust explosion in the presence of air. Containers should be earthed during decanting operations.

Storage

General advice:
Keep container tightly closed. Avoid deposition of dust. Protect against moisture.

Storage stability:
Protect against moisture.

8. Exposure Controls and Personal Protection

Advice on system design:
Provide local exhaust ventilation to control dusts/vapours.

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).

General safety and hygiene measures:
Wash soiled clothing immediately.

9. Physical and Chemical Properties

Form:	powder, flocks	
Odour:	odourless	
Colour:	white	
pH value:		not applicable
glass transition temperature:	225 °C	(1,013 hPa)
Boiling range:		The substance / product decomposes therefore not determined.
Vapour pressure:		not applicable

Density:	1.30 - 1.40 g/cm3	(20 °C, 1,013 hPa)	(EN ISO 1183-1)
Relative density:		No data available.	
Bulk density:	250 - 350 kg/m3	(20 °C, 1,013 hPa)	
Vapour density:		not applicable	
Partitioning coefficient n-octanol/water (log Pow):		not applicable	
Solubility in water:		insoluble	

10. Stability and Reactivity

Minimum ignition energy:

The product is capable of dust explosion.

Conditions to avoid:
Temperature: > 400 degrees Celsius

Substances to avoid:
No substances known that should be avoided.

Decomposition products:
Hazardous decomposition products: carbon monoxide, 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.

Oxidizing properties:
not fire-propagating

11. Toxicological information

Aspiration Hazard:

No aspiration hazard expected.

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

Degradability / Persistence
Biological / Abiological Degradation

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

Bioaccumulation

The product will not be readily bioavailable due to its consistency and insolubility in water.

13. Disposal considerations

Waste disposal of substance:
Check for possible recycling. May be disposed of or combusted with domestic refuse according to local regulations.

Container disposal:
Packs must be completely emptied.

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): Not hazardous;

16. Other Information

Recommended use: Polymer for industrial processing only
Suitable for use in industrial sector: Polymers industry;

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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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.

MSDS Prepared by:
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