

EEC - Safety Data Sheet



accordance to EEC guideline 91/155/EWG

www.macplas.co.nz

0800 506 407

1. Substance/preparation and company name

GEHR –Polyetherimide (PEI) –of semi-finished material, natural

GEHR-Kunststoffwerk
Vertriebsgesellschaft mbH
Casterfeldstrasse. 172
D-68219 Mannheim

Tel.: +49 621 8789 0
Fax: +49 621 8789 200

2. Composition/information on ingredients

This product consists primarily of high molecular weight polymers which are not expected to be hazardous.

3. Hazards identification

Potential Health Effects

Eyes: Product may cause irritation or injury due to mechanical action.

Skin: Semi-finished materials don't cause skin irritation.

Ingestion: Not acutely toxic.

Inhalation: Inhalation unlikely due to physical form.

Melt processing health effects: Molten plastic can cause severe burns. Fumes may cause irritation to the eyes, skin and respiratory tract.

4. First aid measures

Eyes: Remove contact lenses. Flush eyes well with copious quantities of water or normal saline for at least 15 minutes. Seek medical attention, if irritation persists.

Skin: Flush skin thoroughly with water. Seek medical attention if rash or burn occurs.

Inhalation: Not likely to be inhaled due to physical form.

Molten material: In case of skin contact with hot material, cool rapidly with water. Seek medical attention. Do not attempt removal of plastic without medical assistance. Do not use solvent for removal.

In case of irritation from inhalation of processing fumes, leave contaminated area and breathe fresh air. If coughing, difficult breathing or any other symptoms develop, seek medical attention, even if symptoms develop at a later time. In case of skin contact with fume condensate, wash thoroughly with soap and water.

5. Measures for fire fighting

Fire Fighting: Approved pressure demand breathing apparatus and protective clothing should be used for all fires. Water spray is the preferred extinguishing medium. This product will melt but will not be carried on the surface of water.

Extinguishing Media: Water spray and foam. Water is the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition.

Hazardous Combustion Products: Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide and hydrocarbon fragments.

Conditions of flammability: Requires a continuous flame source to ignite and sustain combustion.

6. Accidental Release Measures

General: Sweep or gather up material and place in proper container for disposal or recovery.

EEC - Safety Data Sheet

accordance to EEC guideline 91/155/EWG

Page 2 of 3

Revision: 2001/01

7. Handling and storage

Handling: Follow good standard industrial hygiene practices. Apply adequate ventilation directly to the outside air.

Storage: Inert material under normal storage conditions. No special precautions required. Keep dry for optimum machining. To avoid risk of collapse if accidentally exposed to water, do not stack unsupported boxes too high.

8. Exposure controls/personal protection

Engineering Controls: A continuous supply of fresh air to the workplace together with removal of processing/machining fumes through exhaust systems is recommended.

Personal Protection:

Eye/Face: Wear safety glasses with side shields or chemical goggles should be sufficient for most machining runs.

Hand/Skin: Long pants, long sleeves and gloves should be worn when handling hot material.

Respiratory: Under normal conditions no special respiratory protection is required, however one recommends with work under increased temperatures without sufficient exhaust, use an approved air-purifying respirator. Do not smoke.

9. Physical and chemical characteristics

Form:	Semi-finished material (solid)
Colour:	natural
Smell:	none
Melting range:	This product does not exhibit a sharp melting point.
Autoignition:	630 °C, estimated
Solubility in water:	insoluble

10. Stability and reactivity

Stability: Stable under recommended conditions of storage and handling.

Reactivity: Not reactive under recommended conditions of handling, storage, processing and use.

Conditions to avoid: Do not exceed melt temperature recommendations in product literature. In order to avoid autoignition/hazardous decomposition of hot thick masses of plastic, purgings should be collected in small, flat shapes or thin strands to allow for rapid cooling and quench in water.

Hazardous decomposition: Processing fumes evolved at recommended processing conditions may include trace levels of orthodichlorobenzene and phenol.

EEC - Safety Data Sheet

accordance to EEC guideline 91/155/EWG

Page 3 of 3

Revision: 2001/01

11. Specifications to the toxicology

Product acute oral: Oral LD50 (Rat) > 5 g/kg, estimated.

12. Ecological data

General: Not expected to present any significant ecological problems.

13. Notes to the disposal

Waste disposal:

Recycling: This product may be recycled either back into original parts or into suitable other applications.

Waste disposal: This product is not regarded as hazardous waste. Dispose in accordance with local regulations.

14. Specifications to transport

General: This product is not subject to transport Regulations.

15. Regulations

This product is not considered dangerous under EU Directives 67/548/EEC and 88/379/EEC, as amended.

16. Other specifications

Further information about characteristics of the product can be inferred „from the brochure “the product range by GEHR”.

With the managing specifications, which correspond to the today's conditions of our knowledge and experiences, we want to describe our product regarding any safety requirements.

We connect with it however no characteristic warranties. Consisting laws and analyses are to be observed by the receiver of our product within own responsibility.