

EEC - Safety Data Sheet

accordance to EEC guideline 91/155/EWG



1. Substance/preparation and company name

GEHR –PE UHMW (Ultra High Molecular Weight) –of semi-finished material, natural

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2. Composition/information on ingredients

Ultra High Molecular Weight Polyethylene (PE UHMW)

CAS No.: 9002-88-4

3. Hazards identification

Main hazards: None to our knowledge.

Symptoms related to use Inhalation: If heated to more than 200 °C, the product may form vapours or fumes which may cause irritation of respiratory tract and cause coughing and sensation of shortness of breath.

Skin contact: In contact with hot material, may cause severe thermal burns.

Physico-chemical hazards: Combustible if exposed to flames.

4. First aid measures

Inhalation: Exposure to fumes and vapours produced by heated or burned product: in case of severe exposure to fumes or vapours, move the affected person into fresh air.

Get medical advice if the symptoms continue.

Skin contact: Exposure to splashing of hot product: treat the affected part with cold water (by spraying or immersion). No attempt should be made to detach molten product adhering to the skin or to remove clothing attached with molten material, the injured body part would risk being pulled out; usually the layer detaches itself after a few days. In case of severe burn, seek medical advice immediately.

Eye contact: Exposure to splashing of hot material. Treat the eyes with cold water. Seek immediately special medical attention.

Fine dust may cause irritation to ocular mucous. In case of irritation caused by fine dust: wash with copious volumes of water, until the irritation disappears.

Ingestion: Ingestion during handling is not likely.

5. Measures for fire fighting

Fire Fighting: Approved pressure demand breathing apparatus and protective clothing should be used for all fires.

Extinguishing Media: Carbon dioxide, foam, water, water spray.

Not to be used: None.

Hazardous Combustion Products: Carbon dioxide, water vapour, carbon monoxide, soot and cracked products: aldehydes, ketones, hydrocarbons and volatile fatty acids.

6. Accidental Release Measures

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

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7. Handling and storage

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

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 limitation and personal protection equipment

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
Autoignition:	ca. 350 °C
Solubility in water:	insoluble

10. Stability and reactivity

Stability: Stable under normal conditions.

Conditions to avoid: Avoid contact with strong oxidizing materials and fluorine. Avoid proximity or contact with flames or sparks. Do not heat to temperatures exceeding 300 °C.

Hazardous reactions: Dust may form an explosive mixture with air, ignited by sparks or sources of ignition.

Advice to prevent explosion: Thoroughly ventilate the working place.

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11. Specifications to the toxicology

Inhalation: Low risk for temperatures below 40 °C.

Skin contact: No risk for temperatures below 40 °C. In contact with hot material, may severe thermal burns.

Eye contact: Fine dust may cause irritation to ocular mucous.

Ingestion: minimal toxicity.

Carcinogenicity: The agent is not classifiable as to it's carcinogenicity to humans.

Other: Polyolefines are biologically inert.

12. Ecological information

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

Road: Not restricted for transport.

Rail: Not restricted for transport.

Marine: Not restricted for transport.

Airline: Not restricted for transport.

15. Regulations

Labelling and Classification EC: Not classified according to EEC directives 67/548/EEC and 88/379/EEC.

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.