

EEC - Safety Data Sheet

accordance to EEC guideline 91/155/EWG

1. Substance/preparation and company name

GEHR –PVDF –of semi-finished material, nature

GEHR-Kunststoffwerk
Vertriebsgesellschaft mbH
Casterfeldstrasse 172
D-68219 Mannheim

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

2. Composition/information on ingredients

Polyvinylidene fluoride (PVDF)

CAS No.: 24937-79-9

3. Hazards identification

At very high temperatures thermal decomposition can take place into poisonous products.

4. First aid measures

General information:

no special measures with the contact with the semi-finished material necessarily.

Notes for the physician: none.

5. Measures for fire fighting

Suitable fire extinguishing agents:

Foam, fire-ex. powder, carbon dioxide, water spraying jet.

Unsuitable fire extinguishing agents:

Water full jet.

Special endangerment by the substance, its combustion products or resultant gases:

Beside carbon monoxide and carbon dioxide also hydrogen fluoride results and other fluor products.

Special protection equipment:

Local independent over-pressure press air-breather and/or recirculated air-independent respirators as well as the protection equipment usual with fires are recommended.

6. Measures during unintentional release

Personal precautionary measures:

No special protection equipment required. When welding do not smoke.

Environmental protection measures:

No special measures.

Procedure for cleaning/absorption:

Mechanically raise (sweep up) and if possible recover, otherwise dispose of according to applicable regulations.

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7. Handling and storage

Handling:

Directions on fire and explosion safety:

No special measures necessarily. Material charges up itself electrostatically.

Storage:

Storage in a cool, dry place away from direct sunlight. Stock areas ground, around electrical to avoid static loading.

8. Exposure limitation and personal protection equipment

Technical measures:

Good general ventilation should be sufficient for most processing runs. Local exhaust ventilation may be necessary for some operations.

Personal protection equipment:

Respiratory protection:

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.

Hand protection:

No special protection equipment required.

Eye protection/body protection:

No special protection equipment required.

9. Physical and chemical characteristics

| | |
|-----------------------------------|--------------------------------|
| Form: | Semi-finished material (solid) |
| Colour: | nature |
| Smell: | none |
| Fusion range: | 170-172 °C |
| Decomposition temperature: | >350 °C |
| Density (20 °C): | 1.77 g/cm ³ |
| Solubility in water: | insolubly |

10. Stability and reactivity

Chemical stability:

Stable with normal handling and storage conditions.

Avoiding conditions:

Avoid excessive heat (see decomposition temperature, section 9.). Processing at high temperatures, the material may generate vapour levels sufficient to cause eyes and respiratory irritations (it sections 5 and 8). Titanium dioxide, silicon and boron oxide can lead at high temperatures too violent reactions.

Dangerous decomposition products:

Freed gases can contain: Hydrocarbon, hydrogen fluoride, Carbon monoxide, carbon dioxide, ...

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11. Specifications to the toxicology

Disadvantageous effects are due to experiences of many years do not admit.

This material is physiologically harmless.

In the case of temperature rise over 350 °C this material can cause a pseudo influenza state with fever and muscular pains (polymer fever) by decomposition.

12. Ecological data

With this polymer ecological effects are not known. Due to the insolubility in water the separation takes place with each filtration and sedimentation procedure (not biologically degradable).

13. Notes to the disposal

Process waste can be recycled. The material can be given in the original and not contaminated state at reprocessing plants. Contaminated material (scrap) can be deposited considering the local regulations e.g. on arranged dumps. Dropping key: 571.26 fluor synthetics.

14. Specifications to transport

Does not classify.

15. Regulations

Labelling in accordance to EEC directive:

There is no need to mark this product according EEC-regulations (GefStoffVo).

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.