

## Safety data sheet

according to Regulation (EC) No 1907/2006

# TECAPOWDER PI

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

### Product identifier:

TECAPOWDER PI VPD (325, 425, 1200 mesh)  
TECAPOWDER PI HT VPD (325/+1200, 325, 425, 1200 mesh)  
TECAPOWDER PI STD (140/325, 200, 325, 425, 1200 mesh)  
TECAPOWDER PI HCM (40, 200, 325, 1200 mesh)  
TECAPOWDER PI HT HCM (40, 325, 1200 mesh)  
TECAPOWDER PI Granulate (STD, SG, STD/HT, SG/HT)

### Relevant identified uses of the substance or mixture:

Recommended use: Plastics industry, plastics / polymer processing

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

Ensinger Sintimid GmbH  
Ensingerplatz 1  
A - 4863 Seewalchen  
Tel. +43 7662 88788 0  
www.ensingerplastics.com

### Competent person:

tecapowder@ensingerplastics.com

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## 2. Hazards identification

### 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.

### Label elements:

The product is not subject to specific labelling in accordance with GHS criteria.

### Other hazards:

May form combustible dust concentration in air.  
The product is under certain conditions capable of dust explosion.

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## 3. Composition/information on ingredients

### Description of the mixture:

Mixture based on aromatic polyimide (PI).  
Possibly containing additives and processing aids.

### Information on ingredients:

This product contains no hazardous components.  
The product may contain particles small enough to create a dust hazard.

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### 4. First aid measures

**After inhalation:**

After inhalation of product dust or thermal decomposition products, remove person from the danger zone. Fresh air, oxygen supply, apply artificial respiration if necessary. Keep quiet and warm and seek medical help.

**After skin contact:**

After contact with product dust wash skin with plenty of water and soap. In the event of skin reactions seek medical advice.

**After eye contact:**

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

**After ingestion:**

Rinse mouth with water and drink plenty of water in small sips. Do not force to vomit.  
In case of persistent symptoms seek medical help.

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

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

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

Treat symptomatically.

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### 5. Firefighting measures

**Suitable extinguishing media:**

Water spray, alcohol-resistant foam, carbon dioxide, dry chemical foam.

**Unsuitable extinguishing media:**

Water jet.

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

With carbonization and incomplete combustion toxic gases develop, predominantly carbon dioxide and carbon monoxide. The development of further fission and oxidation products is dependent on the conditions of burning. Traces of other toxic substances may develop under certain conditions of burning. The release of nitrogen oxides and other organic decomposition products is possible. Avoid generating dust. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Advice for firefighters:**

If exposed to fumes and carbonization gases during fire-fighting measures, rescue operations and cleanup wear a self-contained breathing apparatus.

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### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

Avoid dust formation. Take precautionary measures against static discharges. Keep away from sources of ignition.

No smoking.

Avoid contact with skin and eyes. Use personal protective clothing.

**Environmental precautions:**

Let not enter surface water and sewage water system.

**Methods and material for containment and cleaning up:**

Mechanical cleaning up.

Avoid formation and dispersal of dust in the air. Dust might form explosive mixtures with air.

Dust deposits must be removed by humid or wet cleaning or with a vacuum cleaner approved for combustible dust collection. Dry sweeping or blowing-off of dust deposits with compressed air is not allowed. Use only nonsparking tools.

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### 7. Handling and storage

**Precautions for safe handling:**

Avoid dust generation. Minimize the escape of dust from process equipment and ventilation systems. Take precautionary measures against static charges, keep away from all ignition sources including heat, sparks and flame. Use only appropriately classified electrical equipment and powered industrial trucks.

Minimize dust accumulation. Utilize surfaces that minimize dust accumulation and facilitate cleaning. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.

Provide adequate precautions, such as electrical grounding and bonding, or inert atmosphere. Continuity checks to prove effectiveness of the grounding are necessary.

General industrial hygiene regulations are to be observed.

Wash hands before breaks and at the end of workday.

Food and tobacco should not be kept in the workplace.

Do not eat, drink or smoke in the workplace.

**Conditions for safe storage, including any incompatibilities:**

No special measures necessary.

The appropriate company regulations for fire prevention are to be followed.

Keep cool and dry in a firmly closed container.

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### 8. Exposure controls/personal protection

#### Control parameters:

substance	EC No	CAS No	exposure limit value	biological limit value	comment	source	country (type)
general dust limit value (a-dust)			4 mg/m <sup>3</sup>		respirable fraction	Workplace Exposure Limit (WEL)	UK
general dust limit value (e-dust)			10 mg/m <sup>3</sup>		inhalable fraction	Workplace Exposure Limit (WEL)	UK

#### Exposure controls:

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment). The working area should be well ventilated.

#### Respiratory protection:

Do not inhale vapours from hot product.

Wear protective breathing apparatus in case of insufficient ventilation. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Wear dust mask in the presence of dust.

Observe OSHA regulations for respirator use.

#### Eye/face protection:

Safety glasses with side-shields

#### Hand protection/skin protection:

Protective heat-insulating gloves are to be used during thermal processing.

Skin protection should be used (barrier cream containing tanning agent).

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### 9. Physical and chemical properties

**Appearance:**

solid (powder)

**Melting point/Melting range:**

None

**Relative density:**

> 1 g/cm<sup>3</sup>

**Flash point:**

N/A (solid)

**Flammability (solid, gas):**

not flammable

**Vapour pressure:**

N/A (solid)

**Solubility(ies):**

insoluble (water, 20 °C)

**Auto-ignition temperature:**

620 °C

**Viscosity:**

N/A (solid)

**Oxidising properties:**

N/A

**Other information:**

No data available.

**Odour/odour threshold:**

odourless

**Initial boiling point and Boiling range:**

N/A (solid)

**pH (20 °C):**

N/A (solid)

**Evaporation rate:**

N/A

**Upper/lower flammability or explosive limits:**

60 g/m<sup>3</sup> (< 60 µm; lower explosion limit)

**Vapour density:**

N/A

**Partition coefficient: n-octanol/water:**

no data available

**Decomposition temperature:**

> 500 °C

**Explosive properties:**

Product dust might form explosive mixtures with air.

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### 10. Stability and reactivity

**Reactivity:**

No hazardous reactions known when stored and handled according to instructions and used for its intended purpose.

**Chemical stability:**

Product is stable. No hazardous reactions known when stored and handled according to instructions and used for its intended purpose.

**Possibility of hazardous reactions:**

No hazardous reactions known when stored and handled according to instructions.

**Conditions to avoid:**

Do not heat to a temperature above the decomposition temperature.

Keep product away from heat and sources of ignition.

Take precautionary measures against static discharges.

**Incompatible materials:**

Oxidizing agents, alkalis

**Hazardous decomposition products:**

By strong overheating of the material carbon oxides and nitrogen oxides can be generated.

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### 11. Toxicological information

**Acute toxicity:**

With proper use and in accordance with regulations there are no known dangers to health.

**Chronic toxicity:**

When used and handled according to specifications, the product does not have any harmful effects.

**Other information:**

In our experience and according to the literature provided to us the product does not cause any noxious effects when used and handled according to regulations.

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### 12. Ecological information

**Toxicity:**

Data about ecological effects are not available for this product.

**Persistence and degradability:**

No data available.

**Bioaccumulation potential and mobility in soil:**

Biodegradability is not probable due to the consistency as well as the insolubility in water of the product.

**Results of the PBT and vPvB assessment:**

The product does not fulfil the criteria for classification as PBT or vPvB.

**Other adverse effects:**

No relevant information available.

Due to the consistency of the product a disperse distribution in the environment is not likely. Therefore, according to the present state of knowledge negative ecological effects are not expected.

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### 13. Disposal considerations

**Waste treatment methods:**

Product residues can be recycled or treated in an energy recovery plant.

**European waste catalogue:**

The unpolluted product has no dangerous properties and is therefore not a hazardous waste within the meaning of regulation on the European List of wastes.

**Waste codes/waste identification:**

The exact assignment to a waste code must be carried out source- and use-related.

Proposals for the waste code numbers based on the probable use of the unpolluted product:

07 02 13 (waste plastic)

20 01 39 (plastics from separately collected fractions)

**Packaging:**

Uncontaminated or cleaned packaging can be recycled without verification.

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### 14. Transport information

Not classified as dangerous good under transport regulations (USDOT, IMDG, IATA/ICAO).

**UN number:**

Not applicable.

**UN proper shipping name:**

Not applicable.

**Transport hazard class(es):**

Not applicable.

**Packing group:**

Not applicable.

**Environmental hazards:**

Not applicable.

**Special precautions for user:**

No special precautions.

**Transport in bulk according to Annex II of Marpol and the IBC Code:**

Not applicable.

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### 15. Regulatory information

**Safety, health and environmental regulations/legislation specific:**

A safety data sheet for this article is not required by law. The particulars given in this Safety Data Sheet are not required in accordance with article 31 and annex II of the Regulation (EC) No 1907/2006. They merely serve the purpose of providing sufficient information on the voluntary basis with a view to ensure the safe utilization of such mixture.

**EU regulations:**

No dangerous substance in the sense of EU-directives.

**Chemical safety assessment:**

A chemical safety assessment has not been carried out.

**National regulations:**

Water hazard class (Germany): not hazardous to water (Kenn-Nr. 766, BAnz AT 10.08.2017 B5)

Storage class VCI/TRGS 510 (Germany): 11 (flammable solid materials)



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### 16. Other information

**The full text of hazard statements:**

No H-phrases listed in the document.

**Indication of changes:**

Change in Chapter 1: Emergency telephone number

Status as of 06/21.

Previous version V02.0, status as of 04/19.

Change the product name from P84 to TECAPOWDER PI

Status as of 05/23.

Previous version V02.1, status as of 06/19.

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