

## **TECAMID 12**

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### **1. Identification of the article and of the company**

**Trade name:**

TECAMID 12 natural, TECAMID 12 black, TECAMID 12 orange, TECAMID 12 HI natural, TECAMID TR natural

**Application:**

Semi-finished engineering plastics, finished parts

**Note:**

The present product is an article in the sense of regulation (EC) No 1907/2006 (REACH).

**Manufacturer / Supplier:**

Ensinger GmbH  
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Deutschland  
Tel. +49 7032 819 0  
www.ensinger-online.com

**Informing department / competent person:**

phib@de.ensinger-online.com

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### **2. Hazards identification**

**Classification and labelling:**

The product is not classified and doesn't need any labelling.

**Other hazards:**

There are no known risks, if the regulation/details for handling are observed.

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### **3. Composition / information on ingredients**

**Description:**

Article based on polyamide 12 (PA 12), CAS No 25038-74-8.  
Possibly containing additives and processing aids.

**Information on ingredients:**

There are no substances from the candidateliste (SVHC) in the product present above a concentration of 0,1 % weight by weight (w/w).  
The product doesn't contain any substance, which is supposed to be released under normal or reasonably foreseeable conditions of use.

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### 4. First aid measures

**General advice:**

No special measures necessary.

**After inhalation:**

After accidental inhalation of thermal decomposition products, remove person from the danger zone. Oxygen supply, apply artificial respiration if necessary. Keep quiet and warm and seek medical help.

**After skin contact:**

No special measures necessary.

**After eye contact:**

If a foreign body (splinter, chip) enters the eye do not rub. Immobilize the eye, cover both eyes with bandages, consult an eye specialist.

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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.

**Hazardous combustion products / fire gases:**

With carbonization and incomplete combustion toxic gases develop, predominantly carbon dioxide and carbon monoxide. The development of further fission and oxidation products is dependant on the conditions of burning. Traces of other toxic substances may develop under certain conditions of burning.

The release of nitrogen oxides, sulphur oxides and traces of hydrogen cyanide is possible.

**Special protective equipment for firefighting:**

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

**Additional advice:**

The product ignites in a flame and continues to burn on removal of the source.

In an advanced state of fire, the molten polymer must be cooled with water. Water used to extinguish the fire and fire remainders must be collected and water disposed of, in accordance with local regulations.

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### 6. Accidental release measures

**Personal precautions:**

No special measures necessary.

**Environmental precautions:**

No special measures necessary.

**Methods for cleaning up:**

Mechanical cleaning up.

Avoid dry sweeping. Use an appropriate suction device for cleaning to avoid the generation of dust.

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### 7. Handling and storage

**Handling:**

Avoid overheating of material by improper handling. The "Ensinger machining recommendations for semi-finished engineering plastics" are to be observed.

Mechanical processing should generate as little dust as possible. A local extraction system must be installed, or else a proper ventilation of the workplace must be guaranteed.

Take measures against static discharge. Keep away from sources of ignition.

Avoid inhalation of dust/mist/vapour.

General industrial hygiene regulations are to be observed.

Wash hands before breaks and at the end of workday.

Tobacco should not be kept in the workplace.

Do not eat, drink or smoke in the workplace.

**Storage:**

No special measures necessary.

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

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### 8. Exposure controls / personal protection

**Control parameters:**

In case of mechanical processing the general limit for dust is valid.

**Measures to prevent exposure:**

The working area should be well ventilated.

**Respiratory protection:**

Wear protective breathing apparatus in case of dust exposure and/or insufficient ventilation (e.g. DIN EN 143 type FFP1/FFP2)

**Eye protection:**

For mechanical operations wear safety glasses with side pieces or fully closed and tight-fitting goggles (DIN EN 166).

**Hand / skin protection:**

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

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### 9. Physical and chemical properties

**Appearance:**

solid (semifinished or finished parts)

**Melting point / Melting range:**

ca. 180 °C

**Density:**

ca. 1,0 g/cm<sup>3</sup>

**Flash point:**

not applicable

**Explosive properties:**

not applicable

**Water solubility (20 °C):**

insoluble

**Odour:**

product-specific

**Boiling point / Boiling range:**

not applicable

**Decomposition temperature:**

> 300 °C

**Ignition temperature:**

420 - 450 °C

**Vapour pressure:**

not applicable

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

not applicable

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### 10. Stability and reactivity

**Stability:**

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

**Conditions to avoid:**

Do not heat to a temperature above the melting or decomposition temperature.

**Substances to avoid:**

Strong acids, strong alkalis, strong oxidizing agents.

**Hazardous decomposition products:**

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

By strong overheating of the material dense, white smoke, ammonia, carbon monoxide, sulphur oxides and breakdown products of polymers can be generated.

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### 11. Toxicological information

**Acute effects:**

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**

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**

**Recovery / recycling:**

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

When segregated, unpolluted product residues can be recycled mechanically.

**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 Liste 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)

12 01 05 (plastics shavings and turnings)

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 in the meaning of transport regulations.

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### **15. Regulatory informaton**

**Information on regulation (EC) No. 1907/2006 (REACH):**

According to annex II of the REACH regulation there is no legal obligation to compile safety data sheets for articles.

We explicitly would like to point out that the present product handling information sheet (PHIS) is a voluntary information sheet for the handling of products, based on the same principle as our safety data sheets.

A chemical safety assessment ist not necessary for articles and therefore has not been carried out.

Information pursuant to Article 33: That article doesn` t contain any substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0,1 % weight by weight (w/w).

**EU regulations:**

According to regulation (EC) No 1272/2008 (CLP), directives 67/548/EC and 1999/45/EC articles are not subject to classification and labelling requirements.

No dangerous substance in the sense of EU-directives.

**National regulations:**

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

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### **16. Other information**

**Indication of changes:**

Amended scope.

Status as of 04/14.

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Our information and statements reflect the current state of our knowledge and shall inform about our products and their applications. They do not assure or guarantee chemical resistance, quality of products and their merchantability in a legally binding way. Our products are not defined for use in medical or dental implants. Existing commercial patents have to be observed. The corresponding values and information are no minimum or maximum values, but guideline values. They do not represent guaranteed properly values and therefore they must not be used for specification purposes. The customer is solely responsible for the quality and suitability of products for the application and has to test usage and processing prior to use. It is the user`s responsibility to ensure that existing legislation and regulation are followed.