



## SAFETY DATA SHEET

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Product: **Fine Polyamide PA 2200**

Data sheet number: 1997/1

Version: 2

Date: 16.09.2002

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### 1. Substance, Preparation and Company Identification

Product name	<b>Fine Polyamide PA 2200</b>
Supplier	EOS GmbH - Electro Optical Systems
Address	Robert-Stirling-Ring 1 · D-82152 Krailling / München
Telephone	+49 (0)89 / 893 36-0 (operator) +49 (0)89 / 893 36-183 (technical division)
Telefax	+49 (0)89 / 893 36-285
In case of emergency call	+49 (0)89 / 893 36-183

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### 2. Composition/Information on Ingredients

Coating powder on the base	Polylaurinlactam (Polyamide 12)
Depending on grade	Modified, polymer-modified

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### 3. Hazards Identification

Physical and chemical hazards:	Dusts can form explosive mixtures with air
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### 4. First Aid Measures

No special measures required.

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### 5. Fire Fighting Measures

Suitable extinguishing media	Water spray, foam, CO <sub>2</sub> , dry powder
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### 6. Accidental Release Measures

Personal precautions	Prevent the formation of dust
Methods for cleaning up	Take up mechanically

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### 7. Handling and Storage

Handling	Prevent the formation of dust. In case of thermal processing, provide for extraction of the vapours or adequate ventilation.
Protection against fire/explosion	Take precautionary measures against static charges, keep away from sources of ignition (in case of dusts being formed).
Storage	No special measures required

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### 8. Exposure Controls/Personal Protection

Ingredients with limiting values to be controlled:	TLV (TRGS 900/D): 6 mg/m <sup>3</sup> (exposure limit for dust)
Industrial hygiene	Do not inhale dusts. Use barrier cream regularly.
Respiratory protection	Required, in case of dusts being formed
Hand protection	Suitable protective gloves, e.g. leather gloves
Eye protection	Recommended

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### 9. Physical and Chemical Properties

Form	Powder
Colour	
Odour	Odourless
Melting temperature	> 80 °C
Boiling temperature (1013 hPa)	not applicable
Flash point	Not applicable
Ignition temperature	> 350 °C DIN 51794
Explosion limits	Dusts can form explosive mixtures with air
Vapour pressure (20 °C)	Not applicable
Density (20 °C)	1,01-1,02 g/cm <sup>3</sup>
Solubility in water (20 °C)	Insoluble
pH value (g/l water) (20 °C)	Not applicable

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### 10. Stability and Reactivity

Stability	No decomposition below about 350 °C
Hazardous decomposition products	No
Hazardous reactions	No

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### 11. Toxicological Information

No harmful effects have become known as yet

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### 12. Ecological Information

The product is a water-insoluble, solid polymer which, under environmental conditions, is not expected to have a detrimental effect on plants, animals or microorganisms.

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### 13. Disposal Considerations

Product	With respect to local regulations, e. g. dispose of to waste incineration plant
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### 14. Transport Information

No dangerous goods under the transport regulations.

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### 15. Regulatory Information

Labelling (EC)	Not subject to labelling provisions by Directive 67/548/EEC
Hazard symbol	-
R-phrases	-
S-phrases	-

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### 16. Other Information

Recommended usage	Laser sintering
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This data sheet applies only for the product as supplied, in accordance with the EOS specification. Make sure that no new hazards emerge, if the product is combined or mixed with other materials.

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All information in this data sheet are given in good faith and are based on the latest product knowledge at the issue date of the data sheet, however individual information is subject to alteration.

The user's attention is especially drawn to possible risks if the product is used differently than originally expected.

This data sheet may only be used for safety and prevention purposes.

Listed laws and regulations should not be considered complete and/or exhaustive.

The user is responsible for the observation of national and local laws and regulations as regards use, storage and handling of the product.

The user is responsible for passing on all information relating to safety and security in the workplace in the form of this safety data sheet to anyone coming into contact with the product (use, storage, cleaning of containers, various applications).