


SAFETY DATA SHEET		
Polyamide 6.6 Emana Yarn		
Revision: 1.00	Issuing date: 08.02.2011	

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product identifier

Trade name : **Polyamide 6.6 Emana Yarn**

Representation : Filament yarn, bobbin, staple fiber, textured yarn, warp beam.

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

Company : Rhodia Poliamida e Especialidades Ltda.  
 Av. Dos Estados, 6144 – Parque Jaçatuba  
 CEP: 09290-250, Santo André – SP  
 Brazil

Phone Number : + 55 (11) 4435 2000

Fax : + 55 (11) 4435 2193

Emergency telephone number : MULTI LINGUAL EMERGENCY NUMBER (24/7)  
 Europe/America/Africa : +44 1235 239 670 (UK)  
 Middle East & Africa speaking Arabic : +44 1235 239 671 (UK)  
 Asia Pacific : +65 3158 1074 (Singapore)  
 China : +86 10 5100 3039 (Beijing)  
 Mercosul: + 55 (11) 4435 2111

## 2. HAZARDS IDENTIFICATION

### Classification


Classification according to NBR 14725-2

Not applicable

### Label elements

Labelling according to NBR 14725-3

Pictogram : Not applicable

SAFETY DATA SHEET		
Polyamide 6.6 Emana Yarn		
Revision: 1.00	Issuing date: 08.02.2011	

Signal word : Not applicable  
Hazard statements : Not applicable  
Precautionary statements : Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Article

Synonyms : Polyamide 66, Nylon 66, Poly(hexamethylene adipamide).

Chemical Name : Poly(hexamethylene adipamide).

CAS-No. : 32131-17-2

Chemical Nature : Aliphatic thermoplastic polymer.

Physical Nature : Filament continuous yarn, different dtex, counts and types, raw white.

Preparation on the fibre : The product is coated with a spin finish. Typical amounts vary from 0,4 to 3,0% depending on yarn type and dtex. Typical spin finish composition: lubricants, emulsifiers, anti-electrostatic agents. White raw yarns contains inorganic compounds 0 – 2,2%.

Hazardous Ingredients : None.


### 4. FIRST AID MEASURES

#### Description of necessary first-aid measures

General advice : The contact with melted material causes thermal burns. Can cause eyes and skin irritation by mechanical action.

Inhalation : It is not specifically applicable . It is not an expected exposure route.

Skin contact : It is not specifically applied. The molten product can provoke thermal burns. Cool skin rapidly with cold water after contact with molten material. DO NOT PEEL SOLIDIFIED PRODUCT OFF THE SKIN. Seek immediate medical attention/advice.

SAFETY DATA SHEET		
Polyamide 6.6 Emana Yarn		
Revision: 1.00	Issuing date: 08.02.2011	

- Eye contact : Flush eyes with plenty of water. Get medical attention if irritation persists.
- Ingestion : It is not specifically applicable. It is not an expected exposure route.

---

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

- Suitable extinguishing media : Foam  
Water mist  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : None. In case of near fires, use the adequate extinguishing agents.

### Special hazards arising from the substance or mixture

- Specific hazards during fire fighting : Combustible solid, it melts when heated. There is a hazard of fire propagation through flammable streams. It can release harmful and toxic vapors which must not be inhaled. See section 10.


### Advice for firefighters

- Special protective equipment for fire-fighters : Full protection against fire and self-contained breathing apparatus (SCBA).

---

## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Isolate de area. Keep away people without function in the emergency response. Signalize danger to the traffic and notify local competent authorities. Avoid skin and eyes contact. No special safety risk.
- Environmental precautions : No special risks to the environment.

SAFETY DATA SHEET		
Polyamide 6.6 Emana Yarn		
Revision: 1.00	Issuing date: 08.02.2011	

### Methods for Cleaning or Taking Up

- Recovery : Collect the material for controlled reuse or waste disposal.
- Decontamination/cleaning : Recover the contaminated article, soil and materials to a specific container properly labelled for further disposal.
- Disposal : Do not dispose as common waste. The final disposal must be followed by an expert and according to current environmental regulations. Incineration in approved facility is recommended.

## 7. HANDLING AND STORAGE

### Handling

- Technical measures : The product does not need any particular or specific technical measures.
- Advice on safe handling and usage : Handle respecting general rules of industrial Hygiene and Safety.

### Storage


- Technical Measures for storage : No need of particular or specific technical procedures. Keep in clean and dry area. Protect from direct sunlight.

### Storage conditions

- Recommended : Store away from flame and protected from weather and moisture.
- Incompatible products and materials : Comburent materials.
- Package conditions : The product must be stored in an adapted and recyclable package.

### Packaging Measures

- Packaging materials – Recommended : Paper, plastic material (polypropylene) and raffia cloth.
- Packaging materials – To be avoided : No data available.

SAFETY DATA SHEET		
Polyamide 6.6 Emana Yarn		
Revision: 1.00	Issuing date: 08.02.2011	

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

We are not aware of any national exposure limit.

Industrial Hygiene : No special risks if handled in accordance with good industrial hygiene practice. During product transformation capture vapors at emission points.

### Personal protective equipment

Respiratory protection : Not applicable

Hand protection : Not applicable.

Eye protection : Not applicable.

Skin and body protection : Safety boots in case of the manipulating the bobbins and careful to not drop the bobbins in the feet.

Hygiene measures : Do not eat, drink or smoke during product handling.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : Multifilament yarns, wound up on bobbins/cylinders.

Physical state : Solid.

Colour : Raw white.

Odour : None.

Odour Threshold : No data available.

### Safety data

pH : Not applicable.

Melting point/range : 255 – 265 °C

**SAFETY DATA SHEET**

Polyamide 6.6 Emana Yarn


Revision: 1.00

Issuing date: 08.02.2011

Boiling point/boiling range	: Not applicable.
Flash point	: > 400°C.
Thermal Decomposition	: > 350 °C (it can produce a partial evaporation of the spin –finish at 130 °C).
Flammability (solid, gas)	: no data available.
Autoignition temperature	: > 450 °C
Heat combustion	: 7536 kcal/kg.
Water solubility	: miscible
Solubility in other solvents	: The polyamides are insoluble in most of the common solvents. They are soluble in formic concentrate acid, carbolic acids, methanol – CaCl <sub>2</sub> , sulfuric acid, and alpha – cyanohydrin. Several polyamides are soluble in polyvalent alcohols. Copolyamides, such as nylon 6 and 6.6 are soluble in 2 – chloroethanol, trichloroethanol and chloride of methylene 80% in aqueous methanol.
Partition coefficient: n-octanol/ water	: no data available
Vapour pressure	: no data available
Evaporation rate	: no data available
Relative vapour density	: no data available
Density	: 1,14 g/cm <sup>3</sup> (solid)
Relative density	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Thermal decomposition	: no data available
Lower explosion limit	: no data available
Upper explosion limit	: no data available

**10. STABILITY AND REACTIVITY**

Chemical stability	: Stable at room temperature and under normal conditions of use.
<b>Hazardous reactions</b>	
Conditions to avoid	: There are no known hazardous reactions under normal conditions of use.
Materials to avoid	: Comburent materials.

SAFETY DATA SHEET		
Polyamide 6.6 Emana Yarn		
Revision: 1.00	Issuing date: 08.02.2011	

Decomposition products : Thermal combustion releases toxic gases: predominantly carbon monoxide, and carbon dioxide and in addition, nitric oxide, ammonia, hydrogen cyanide and various organic compounds can be generated.

---

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Acute oral toxicity : no data available  
 Acute inhalation toxicity : no data available  
 Acute dermal toxicity : no data available  
 Acute toxicity (other routes of administration) : no data available  
 Aspiration toxicity : no data available

### Skin corrosion/irritation

Skin irritation : May cause irritation by mechanical action.

### Serious eye damage/eye irritation

Eye irritation : May cause irritation by mechanical action.

### Respiratory or skin sensitization

Sensitisation : no data available

### Repeated dose toxicity

Repeated dose toxicity : no data available]

### STOT

STOT - single exposure : no data available  
 STOT - repeated exposure : no data available

### Carcinogenicity

Carcinogenicity : no data available

**SAFETY DATA SHEET**

Polyamide 6.6 Emana Yarn

Revision: 1.00

Issuing date: 08.02.2011

**Mutagenicity**

Genotoxicity in vitro : no data available

Genotoxicity in vivo : no data available

**Reproductive toxicity**

Reproductive toxicity : no data available

---

**12. ECOLOGICAL INFORMATION****Ecotoxicity effects****Aquatic Compartment (including sediment)**

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates. : no data available

**Persistence and degradability****Biodegradability**

Biodegradability : no data available


**Bioaccumulation**

Partition coefficient: n-octanol /water : no data available

Bioconcentration factor (BCF) : no data available

**Mobility**

Known distribution to environmental compartments : Ultimate destination of the product: Soil

SAFETY DATA SHEET		
Polyamide 6.6 Emana Yarn		
Revision: 1.00	Issuing date: 08.02.2011	

### 13. DISPOSAL CONSIDERATIONS

#### Product Disposal

Advice on Disposal : Do not dispose of with domestic refuse.  
 Dispose of in accordance with local regulations.  
 The product should not be allowed to enter drains, water courses or the soil.  
 Dispose of contents/ container to an approved waste disposal plant.  
 Send to a licensed waste management company.

#### Advice on cleaning and disposal of packaging

Advice : Do not re-use empty containers.  
 Advice on Disposal : Can be disposed of as solid waste or burned in suitable installations, subject to local regulations. Recycling or thermal recycling is recommended.  
 Other data : Dispose of in accordance with local regulations.

### 14. TRANSPORT INFORMATION

#### ANTT

Not regulated

#### DOT

Not regulated

#### ADR


Not regulated

#### IMDG

Not regulated

#### IATA

Not regulated

SAFETY DATA SHEET		
Polyamide 6.6 Emana Yarn		
Revision: 1.00	Issuing date: 08.02.2011	

## 15. REGULATORY INFORMATION

---

## 16. OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

Not applicable.

### Full text of P-Statements referred to under sections 2 and 3.

Not applicable.

---

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in an other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.

NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).