

## Product Safety Data Sheet for Polyamide Granules

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**Product:** POLYAMIDE 66 granules

**Date:** September 3, 2012

**Revision:** 5

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**Replaces:** June 15, 2009

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### 1. 1.1 Product / Company identification

#### 1.1 Product identification

1.1.1 Presentation	granules
1.1.2 Chemical name	Poly(hexamethylene diamine adipate)
1.1.3 Trade name and synonyms	<b>POLYAMIDE 66</b> , Nylon 6.6, PA 6.6

#### 1.2 Company identification

1.2.1 Manufacturer	PHP Fibers GmbH Postfach 100149 D-42097 Wuppertal
1.2.2 Product information	Phone: +49 6022 812454 Telefax: +49 6022 81312454
Transport emergency/ Fire emergency	Polyamide High Performance GmbH Site Obernburg (D), Plant Fire Brigade Phone : +49 6022 812666

### 2. Composition / Information on ingredients

#### 2.1 Composition

2.1.1 Polymer	CAS.No.: 32131-17-2	> 99 %
2.1.2 Additives		

#### 2.2 Chemical characterisation

2.2.1 Description	Polymer granules, white
2.2.2 Additional information	To be used only for the intended purpose, i.e. polymer processing

### 3. Hazards Identification

**3.1** To our knowledge there exists no risk to the health of employees if the polymer granules are processed and handled properly.

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### 4. First aid measures

#### 4.1 Inhalation

Inhalation of the product is unlikely to be detrimental to health if relevant MAC values are observed. Exposure to dust and decomposition products is to be avoided by means of suction and ventilation. Persons exposed to excessive levels of dust or fly are to be moved out to fresh air and medical attention is to be sought if cough or other symptoms develop.

#### 4.2 Irritations of eyes

Immediately flush with plenty of water. Seek medical attention if irritation persists.

#### 4.3 Contact with skin

Wash with soap and water. Seek medical attention if irritation develops or persists. Treat injuries caused by contact with melt like burns (flush with plenty of cold water). Seek medical attention.

#### 4.4 Ingestion

No specific precautions are necessary. Seek medical advice if necessary.

### 5. Fire fighting measures

#### 5.1 Flammable properties

Flashpoint	Not applicable, product will burn in a fire
Forced ignition temperature	390 °C
Auto-ignition temperature	510 °C
Decomposition temperature	Decomposition starts at 310 °C
Hazardous combustion products	Carbon, dioxide, carbon monoxide, nitrogen oxides, low-molecular-weight organic compounds, hydrocyanic acid

Unusual fire and explosion hazards	Accumulation of dust may present a fire hazard if concentrations are high enough. Remove ignition sources. Keep the effects of electrostatic charge in mind.
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### 5.2 Extinguishing media

Suitable media

Unsuitable media

All generally used extinguishing media.  
Water if the fire was caused by an electrical short circuit.

### 5.3 Fire-fighting in confined spaces

Use autonomous respirators.

## 6. Accidental release measures

### 6.1 Personal precautions

Not applicable

### 6.2 Cleaning up

After spilling/leakage sweep up to avoid slipping

## 7. Handling and storage

### 7.1 Handling

7.1.1 Precautions to ensure safe handling

See section 8

7.1.2 Prevention of fire and explosion

Avoid or remove dust, keep away sources of ignition, remember effects to electrostatic charge.

### 7.2 Storage

7.2.1 Further information on storage conditions

Store in accordance with relevant provisions and good material handling practices.

7.2.2 Storage class

Not applicable

## 8. Exposure controls and personal protection

### 8.1 Engineering controls

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If necessary, provide ground connection (because of electrostatic charge) and suction system (in case of dust formation).

### 8.2 Personal protective equipment

8.2.1 General protective and hygienic measures

Keep equipment, rooms and work clothing clean

8.2.2 Respiratory protection

Not necessary

8.2.3 Hand protection

Not necessary

8.2.4 Eye protection

Wear goggles when working with polymer melt

8.2.5 Body protection

Not necessary

### 8.3 Exposure limits

No exposure limits have been established.

## 9. Physical and chemical properties

### 9.1 Appearance

9.1.1 Form

granules

9.1.2 Color

white

9.1.3 Odor

odorless

### 9.2 Safety-relevant data

9.2.1 Melting point

255 – 260 °C

9.2.2 Flash point

Not applicable

9.2.3 Forced ignition temperature

390 °C

9.2.4 Auto-ignition temperature

510 °C Content of solvents negligible

9.2.5 Fire promoting properties

Not applicable

9.2.6 Explosion hazard

See 7.1.2

9.2.7 Explosion temperature

Not determined

9.2.8 Vapor pressure at 20 °C

Not applicable

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9.2.9	Specific gravity	1.14 g/cm <sup>3</sup> (20 °C)
9.2.10	Solubility in water	negligible
9.2.11	pH value at 20 °C	Not applicable
9.2.12	Distribution coeff. N-octanol/water	Not determined
9.2.13	Viscosity	Solid at room temperature
9.2.14	Solvent content	Not applicable

### 10. Stability and reactivity

**10.1 Chemical stability** Stable

#### 10.2 Conditions to avoid

High temperatures will cause decomposition in the presence of oxygen (also see items 5.1 and 10.4)

#### 10.3 Incompatibility with other materials

Is incompatible or can react with strong oxidizers, bases, acids.

#### 10.4 Decomposition

Hazardous decomposition products.

Carbon dioxide, carbon monoxide, nitrogen oxides, low-molecular-weight organic compounds, hydrocyanic acid.

#### 10.5 Polymerization

Polymerization will not occur.

### 11. Toxicological information

**11.1 Acute toxicity** Polymer, therefore not determined

**11.2 Reported human effects** Polymer is not toxic no adverse effects on health are known to occur as long as the product is processed and handled properly.

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### 12. Ecological information

The polymer is ecologically safe.

Water pollution class (WGK) 0 (own classification)

### 13. Disposal considerations

#### 13.1 Product

13.1.1 Recommendation

Recycling is preferable, disposal on household waste disposal facility and incineration are possible. Observe local and governmental regulations.

13.1.2 Waste code

57129

Waste name

other hardened plastic waste

Obligation to provide documentation No

#### 13.2 Uncleaned packing

No special measures required

### 14. Transport information

GGVSee/IMDG-Code

UN No.

ICAO/IATA-DGR

GGVE/GGVS

RID/ADR

ADNR

Further information

Not a hazardous product within the meaning of the above provisions, therefore no labeling required

### 15. Regulatory information

**15.1 Labeling according to EC directives** No labeling

#### 15.2 National regulations

No classification

15.2.1 Water pollution class (WGK) 0 (own classification)

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### 16. Other information

The information contained in this product safety data sheet refers exclusively to the polyamide granules described herein. It covers neither its use in combination with any other material, preparation, or product nor its use in any process.

The objective of the product safety data sheet for polyamide granules is to provide adequate information to commercial users of the product and to thus make a contribution to the protection of people and the environment. It is not intended for the private final consumer.

The information contained in this product safety data sheet reflects the knowledge of the party completing the sheet at the time of printing. It is no contractual warranty of products properties.

#### **Changes with respect to previous issues of PSDS are due to:**

Modifying of company name.

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