

## Material Safety Data Sheet Nylon Yarn 66

### Section 1 - Product Identification

Synonym : Poly(hexamethylene adipamide).  
Chemical Formula :  $(C_{12}H_{22}N_2O_2)_n$   
Company Identification : Tradeasia International Pte. Limited  
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Recommended use : Textiles

### Section 2 – Hazards Identification

#### 2.1. Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### 2.2. Label elements

##### Symbols/Pictograms

Not applicable

##### Signal Word

Not applicable

##### Hazard Statements

Not applicable

##### Precautionary Statements

Not applicable

#### 2.3. Other hazards

Not applicable

### Section 3 – Composition/Information on Ingredients

#### 3.1 Composition comments

| Chemical Name | EC No/CAS No | Purity, % |
|---------------|--------------|-----------|
| Nylon 66      | 32131-17-2   | 100       |

### Section 4 – First-Aid Measures

#### 4.1. Description of first aid measures

##### General advice

The product is being classified as non-toxic.

##### Eyes

Flush eyes with plenty of water. Get medical aid. Seek medical attention, if irritation persists.

##### Skin

Burns caused by molten material on skin need to be rapidly cooled down with water; do not attempt removal of plastic without medical assistance. If irritation develops, seek medical attention.

**Ingestion**

Unlikely route of exposure.

**Inhalation**

In case the plastic burns and combustion gases are inhaled, remove the person to fresh air and keep warm and get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

N.A.

**4.3. Indication of any immediate medical attention and special treatment needed**

N.A.

## **Section 5 – Fire Fighting Measures**

**5.1. Suitable Extinguishing media**

Water, foam, gaseous and dry extinguishing media.

**5.2. Specific hazards arising from the chemical**

Carbon oxides, ketones, aldehydes.

**5.3. Special protective actions for fire-fighters**

Approved pressure demand breathing apparatus and protective clothing should be used for all fires.

## **Section 6 – Accidental Release Measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Not available.

**6.2. Environmental precautions**

Not available.

**6.3. Methods and material for containment and cleaning up**

Vacuum or sweep up material and place into a suitable disposal container.

## **Section 7 – Handling and Storage**

**7.1. Precautions for safe Handling**

During machining of the stock shapes, evacuate the swarf to prevent slipping or tripping.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from source of flame, heat and ignition.

## **Section 8 – Exposure Controls/Personal Protection**

**8.1. Appropriate engineering controls**

Not applicable.

## **8.2. Individual protection measures, such as personal protective equipment (PPE)**

### **Eye/face protection**

Face shield and safety glasses

### **Skin protection**

Handle with gloves.

### **Body Protection**

Wear appropriate clothing at the workplace.

### **Respiratory protection**

Adequate ventilation at the workplace is required.

## **Section 9 – Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

Physical State: Solid

Appearance: Various

Odor: Slight

pH: Not applicable

Viscosity: Not available

Flash Point: >390°C

Melting Point: 260°C

Corrosion Temperature: >350°C

Auto-ignition Temperature: 400°C

Solubility: Insoluble

Density: 1.14 g/cm<sup>3</sup>

## **Section 10 – Stability and Reactivity**

### **10.1. Reactivity**

There exists no specific test data for this product.

### **10.2. Chemical stability**

Stable under normal temperatures and pressures.

### **10.3. Possibility of hazardous reactions**

Not available.

### **10.4. Conditions to avoid:**

Avoid high temperatures.

### **10.5. Incompatible materials**

Strong oxidizing agents.

### **10.6. Hazardous decomposition products**

Carbon monoxide (CO), Hydrogen cyanide (HCN), Ammonia (NH<sub>3</sub>)

## **Section 11 – Toxicological Information**

### **11.1 Health effects associated with ingredients**

#### **Acute toxicity**

Non-toxic.

#### **Skin corrosion/irritation**

Not available.

#### **Serious eye damage/eye irritation**

Not available.

#### **Respiratory or skin sensitization**

Not available.

#### **Germ cell mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Specific target organ toxicity - single exposure**

Not available.

#### **Specific target organ toxicity - repeated exposure**

Not available.

#### **Aspiration hazard**

Not available.

## **Section 12 – Ecological Information**

### **12.1. Ecotoxicity**

Not available.

### **12.2. Bioaccumulative potential**

Not available.

### **12.3. Mobility in soil**

Not available.

### **12.4. Persistence and Degradability**

Not readily biodegradable.

### **12.5. Other adverse effects**

Not available.

## **Section 13 – Disposal Considerations**

### **13.1. Disposal methods**

Waste from residues/unused products

Disposal should be in accordance with applicable regional, national and local laws and regulations. Recycle if possible.

## **Section 14 – Transport Information**

### **14.1. DOT**

Not regulated

#### 14.2. IMDG

Not regulated

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No information available

#### 14.3. IATA

Not regulated

### Section 15 – Regulatory Information

#### 15.1. Safety, health and environmental regulations

Not regulated. No regulations required.

### Section 16 : Additional Information

#### 16.1. List of abbreviation and acronyms used in this MSDS

**SDS** : Safety Data Sheets

**Index N°** : atomic number of the element most characteristic of the properties of the substance

**CAS No** : Chemical Abstracts Service number

**EC No** : EINECS Number : European Inventory of Existing Commercial Substances

**Repr. Cat. 2** : Substance presumed human reproductive toxicant

**Acute Oral Cat. 5** : Substance which is of relatively low acute oral toxicity.

**GHS** : Globally Harmonised System of Classification and Labelling

**LD<sub>50</sub>** : Median Lethal Dose

**LC<sub>50</sub>** : Lethal Concentration, 50%

**N.A.** : Not Applicable

**OSHA** : Occupational Safety & Health Administration

**Cal OSHA** : The State of California Division of Occupational Safety and Health (DOSH)

**PEL** : Permissible Exposure Limits

**ACGIH** : American Conference of Governmental Industrial Hygienists

**TLV** : Threshold Limit Value

**Japanese MITI** : Japanese Ministry of International Trade and Industry

**EC<sub>50</sub>** : Half maximal effective concentration

**UN** : United Nations

**U.S. EPA TSCA Inventory**: Inventory of the chemical substances manufactured or processed in the United States according to Toxic Substances Control Act compiled and published under the authority of the Environmental Protection Agency

**Canadian DSL**: Canadian Domestic Substances List

#### 16.2. Disclaimer of Liability

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This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.