

**Product name** CoolPoly®  
**MSDS number** 870023  
**Revision Number** 2

**Revision Date** May.16.2016  
**Issuing date** May.16.2016

AGHS/EN

## 1. Identification of the substance/preparation and the company/undertaking

**Product name**  
**CoolPoly®**

The following SDS applies to products described by combinations of the following trade name, product grade and color code listed below.

**Product Grade(s):**  
D3612

**Color Code:**  
See Section 16 for list of Color Codes

### **Manufacturer or supplier's details**

**Celanese (Shanghai) International Trading Co., Ltd.**  
Room 239, Xinmao Building  
South Taizhong Road  
Waigaoqiao Free Trade Zone  
Shanghai, China

**Celanese Pte Ltd**  
138 Robinson Road  
#17-00  
Singapore (068906)

**Product Information**  
info-engineeredmaterials-asia@celanese.com

**Emergency telephone number**  
(+65) 62656917 (Operations Room direct dial)  
or fax request to +(65) 62664696 (Facsimile to Operations Room)  
or email to posh.er@paccoffshore.com.sg

**Synonyms:**  
Policapram

**Identified uses**  
Plastic processing industry.

## 2. Hazards identification

**Statements of Hazard**

Not a dangerous product according to GHS

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### 3. Composition/Information on ingredients

**Chemical characterization** Nylon 6,6 or Poly[Imino(1,6-Dioxo-1,6-HexanediyI)Imino-1,6-HexanediyI]; Polyhexamethylene Adipamide; CAS-RN: 32131-17-2 with flame retardant

Components	CAS-No	Percent %
Proprietary Filler A		20 - 50

### 4. First aid measures

#### Skin

Cool skin rapidly with cold water after contact with molten polymer. Do not peel solidified product off the skin. Immediate medical attention is required.

#### Eyes

Immediately flush eye(s) with plenty of water. Call a physician if irritation persists.

#### Inhalation

Move to fresh air in case of accidental inhalation of vapors. Get medical attention immediately if symptoms occur.

#### Ingestion

If swallowed, do not induce vomiting - seek medical advice.

#### Notes to physician

This product is essentially inert and nontoxic. However, if it is heated at too high a temperature or if it is burned, gases may be released. Patients who have been exposed to off-gases may need to have their arterial blood gases and carboxyhemoglobin levels checked. If the carboxyhemoglobin levels are normal, asphyxia (carbon dioxide replacing oxygen) is a possibility. As with any fire, irritant gases may have formed. If patients may have inhaled high concentrations of irritating fumes, they should be monitored for delayed onset pulmonary edema.

### 5. Fire-fighting measures

**NFPA:** Health: 1

**Flammability:** 0

**Instability:** 0

#### Suitable extinguishing media

Water, Foam, Dry powder, Carbon dioxide (CO<sub>2</sub>)

#### Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases

Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen cyanide (hydrocyanic acid)  
Oxides of phosphorus  
Boron oxides

#### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

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**Other Information**

Keep people away from and upwind of fire. Dust can form an explosive mixture in air.

**6. Accidental release measures****Personal precautions**

Avoid dust formation.

**Environmental precautions**

Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up**

Use mechanical handling equipment. Dispose of in accordance with local regulations.

**7. Handling and storage****Advice on safe handling**

Do not handle hot or molten material without appropriate protective equipment. Do not exceed recommended process temperatures to minimize release of decomposition products. Maintain good housekeeping in work areas.. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

**Protection - fire and explosion:**

Do not smoke in areas where polymer dust is present.. Appropriate measures should be taken to control the generation and accumulation of dust during conveying and processing operations..

**Material storage**

Keep in a dry, cool and well-ventilated place. Maintain dryness of resin..

**8. Exposure controls / personal protection****ACGIH Exposure Limits**

Components	TWA
Proprietary Filler A	10 mg/m <sup>3</sup> Total Dust; 3 mg/m <sup>3</sup> Respirable Dust

**OSHA Exposure Limits**

Components	TWA
Proprietary Filler A	15 mg/m <sup>3</sup> Total Dust; 5 mg/m <sup>3</sup> Respirable Dust

**Exposure controls****Engineering measures**

General: May not be adequate as the sole means to control employee exposure.  
 Local Exhaust: Recommended when appropriate to control employee exposure to dust or process vapors.

**Personal protective equipment**

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<b>Hygiene measures</b>	When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday..
<b>Respiratory protection</b>	In case of insufficient ventilation wear suitable respiratory equipment.
<b>Eye protection</b>	safety glasses with side-shields.
<b>Hand protection</b>	protective gloves
<b>Suitable material</b>	Butyl-rubber
<b>Type</b>	Butoject (Company KCL) or comparable article; or refer to glove manufacturer's recommendation
<b>Evaluation</b>	according to EN 374: level 6
<b>Material thickness</b>	approx. 0,3 mm
<b>Break through time</b>	480 min

## 9. Physical and chemical properties

### Appearance

<b>Form</b>	pellets
<b>Odor</b>	slight

<b>Flash point</b>	Not applicable
<b>Ignition temperature</b>	No data available
<b>Flammability (solids)</b>	not applicable
<b>Density</b>	Not Determined
<b>Bulk density</b>	Not Determined
<b>Water solubility</b>	insoluble
<b>VOC Content(%)</b>	Not determined
<b>Explosive Properties</b>	not applicable
<b>Oxidizing Properties</b>	not applicable
<b>Surface Tension</b>	not determined

## 10. Stability and reactivity

### **Chemical stability**

Stable under normal conditions

### **Conditions to avoid**

Flame. Avoid prolonged heating at or above the recommended processing temperature..

### **Incompatible Materials**

strong oxidizing agents, reducing agents, strong acids, strong bases

### **Hazardous Combustion or Decomposition Products:**

Nitrogen oxides (NOx) Carbon dioxide (CO2) Carbon monoxide, ammonia, aliphatic amines, amides, ketones, nitriles, hydrogen cyanide. Boron oxides

## 11. Toxicological information

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## Potential health effects

**Routes of exposure** Skin, eyes, inhalation, ingestion.

### Immediate effects

<b>Skin</b>	Polymer particles may cause mechanical irritation. The molten product can cause serious burns.
<b>Eyes</b>	Resin particles, like other inert materials, are mechanically irritating to eyes
<b>Inhalation</b>	Dust irritating to respiratory tract. Overheating in processing may generate hazardous, irritating vapours.
<b>Ingestion</b>	Low toxicity by this route is expected based on the biological activity of high molecular weight polymers.

**Medical conditions which may be aggravated by exposure:** No specific information available on the product. Off-gases, which may be released if overheated, may affect those with chronic diseases of the respiratory system.

Toxicological data are not available. Observe the usual hygienic measures for handling chemicals.

## 12. Ecological Information

**Ecotoxicity:** The effects of resin pellets on the wildlife that may ingest them is not well understood. In the case of seabirds, some marine biologists believe that the fowl may not be able to pass plastic pellets through their digestive tracts. Thus, large quantities of ingested pellets may cause intestinal blockage, false feelings of satiation or reduction in absorption of nutrients, causing malnutrition and starvation. The goal of SPI's Operation Clean Sweep is zero loss of pellets into the environment..

**Environmental Fate/Information:** This material is considered to be non-biodegradable.. Do not discharge product unmonitored into the environment.

## 13. Disposal considerations

### Product information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal

### Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse

## 14. Transport information

**US Department of Transportation** Not regulated

**ADR/RID** Not regulated

**ADN** Not regulated

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## 14. Transport information

ICAO/IATA Not restricted

IMDG Not regulated

## 15. Regulatory information

### INTERNATIONAL REGULATIONS

This preparation is not classified as dangerous according to Chinese legislation.

## 16. Other information

HMIS: Health: 1 Flammability: 0 Physical Hazard: 0

**Color code(s)**  
NATURAL

**Prepared By**  
Product Stewardship Department  
Celanese

### **Other Information:**

Observe national and local legal requirements. Except as otherwise noted, all of the trademarks referenced herein are owned by Ticona or its affiliates. .

Changes against the previous version are marked by \*\*\*

### **Sources of key data used to compile the datasheet**

Information contained in this safety data sheet is based on Celanese owned data and public sources deemed valid or acceptable.

### **Further information**

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements.