



01-016000 PCR-86.6 or STATIPURE C.86  
01-1015196 STATIPURE C.86 BOM Alt 10

## Material Safety Data Sheet

### Section I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

<b>Manufacturer's Name:</b> Entegris, Inc.	<b>Emergency Telephone Number:</b> CHEMTREC USA: 800-424-9300 International: 703-527-3887 (Collect)
<b>Address:</b> 101 Peavey Road Chaska, Minnesota 55318	<b>MSDS Issue Date:</b> 10-4-07 <b>MSDS Revision:</b> B
<b>Telephone Number For Information:</b> 952-556-3131	<b>MSDS Revision Date:</b> 3-11-11 <b>MSDS Number:</b> NA
<b>Products:</b> PCR-86.6 or STATIPURE C.86 STATIPURE C.86 BOM Alt 10	<b>Product Number(s):</b> 01-016000 01-1015196
<b>Substance Identification:</b> Blend of polycarbonate resin and carbon powder.	

### Section II – COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS NO.	Percent
Polycarbonate	24936-68-3	70-99
Carbon powder	7440-44-0	1-30

### Section III – HAZARD IDENTIFICATION AND EMERGENCY OVERVIEW

<b>Emergency Overview:</b> Irritating gases/fumes may be given off during burning or thermal decomposition, resulting in possible irritation to eyes, skin and respiratory tract. Fumes generated during melt processing may cause eye, skin and respiratory tract irritation. May cause mechanical irritation (abrasion). Spilled materials may present a slip hazard. Molten materials can cause severe burns. Target organs: Respiratory tract, eyes and skin.
<b>Route(s) of Entry:</b>
<b>Inhalation:</b> Pellets are not expected to cause adverse respiratory effects in supplied form. Dust or powder is considered an inhalation hazard. Thermal processing or decomposition of material may irritate the respiratory tract.
<b>Skin absorption:</b> Not likely to occur in the supplied or processing form.
<b>Ingestion:</b> Not acutely toxic.

**Health Hazards (Acute and Chronic):** The following information is provided on the hazardous ingredients in their pure dry form. The form the ingredients are provided is encapsulated in plastic pellets, and therefore the likelihood of exposure is much less unless the product form is modified. Carbon powder may cause mechanical irritation to the eyes and temporary discomfort to the respiratory tract at concentrations above the occupational exposure limit. Possible human carcinogen by IARC. Keep dust levels below occupation exposure levels.

Gases and fumes evolved during thermal processing or decomposition may irritate the eyes, skin or respiratory tract. Molten materials can cause severe burns. No known long term effects.

**Signs and Symptoms of Exposure:** Contact with molten materials can cause severe burns. Processing fumes may cause irritation to the eyes, skin and respiratory tract.

**Medical Conditions Generally Aggravated by Exposure:** There are no known health effects aggravated by exposure to this product; however certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing vapors if not properly ventilated.

## Section IV – FIRST AID

### In Raw Material Form:

**Eyes:** Wash eyes immediately with large amounts of water for a minimum of 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Consult a physician for medical treatment.

**Skin:** Wash material off skin with soap or mild detergent and water. If redness, itching or burning sensation develops consult a physician for medical treatment.

**Ingestion:** Not probable due to nature of the material. If large amounts of the material are swallowed, consult a physician for medical treatment.

**Inhalation:** Not probable due to nature of the material.

### In Melt Processing Form:

**Eyes:** For eye contact with molten material, immediately flush with large amounts of water for a minimum of 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Consult a physician for medical treatment.

**Skin:** For skin contact with molten material, cool rapidly with water or ice and consult a physician for medical treatment. For skin contact with fume condensate, wash thoroughly with soap and water. If irritation develops, consult a physician for medical treatment.

**Ingestion:** Not probable due to nature of the material. If large amounts of the material are swallowed, immediately consult a physician for medical treatment.

**Inhalation:** For processing fume inhalation or irritation, immediately remove person to fresh air. If coughing, difficulty breathing or other respiratory symptoms develop, immediately consult a physician for medical treatment.

## Section V – FIRE FIGHTING MEASURES

<b>Flash Point (Method Used):</b> >300°C (>572°F)	<b>Flammable Limits</b>	<b>LEL:</b> Not available	<b>UEL:</b> Not available
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**Extinguishing Media:** Water spray or foam. Carbon dioxide or dry chemical are generally not recommended due to their lack of cooling capacity which may allow re-ignition.

**Fire and Explosion Hazards:** During a fire, intense heat, irritating smoke and toxic gases (Phenol, Bisphenol A, carbon dioxide, aldehydes, and carbon monoxide) may be generated by thermal decomposition and combustion. Dust may form explosive mixtures with air.

**Special Fire Fighting Instructions/Precautions:** In the supplied form, this product offers no unusual fire or explosion hazards, however dust and fumes generated from this product could present an explosion hazard. Fire fighters should wear full protective clothing and self contained breathing apparatus to protect against potential toxic and irritating fumes while extinguishing a fire.

## Section VI – ACCIDENTAL RELEASE MEASURES

**Steps to Be Taken in Case Material is Released or Spilled:** If molten, allow material to cool and place into an appropriate container for disposal. Loose pellets may present a slipping hazard. Vacuum or sweep up immediately and place in proper container for disposal or recovery.

## Section VII – HANDLING AND STORAGE

**Handling:** Wear protective gloves and safety glasses. Open containers in a well ventilated area. Avoid breathing dust. Wash thoroughly after handling.

**Storage:** Store in a cool dry place. Maximum storage temperature is 93°C (199.4°F). Protect equipment (i.e., storage bins, conveyors, dust collectors) with explosion vents. To reduce the risk for dust explosion, do not allow dust to accumulate.

## Section VIII – PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROL

Ingredient:	OSHA - PEL	ACGIH - TLV
Particulates	15 mg/m <sup>3</sup> (Total Dust) 5 mg/m <sup>3</sup> (Respirable)	10 mg/m <sup>3</sup> (Inhalable Fraction) 3 mg/m <sup>3</sup> (Respirable)
Carbon powder	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>

**Ventilation:** Provide local exhaust ventilation at processing equipment to keep particulates below OSHA's total dust and respirable dust levels.

**Respiratory Protection:** With properly designed ventilation, use of respiratory protection should not be necessary. When processing fumes are not adequately controlled, use NIOSH approved respirators for the hazard present.

### Personal Protection:

**Hand:** Wear heat resistant gloves when handling molten materials.

**Eyes:** Wear safety glasses with side shields when handling.

**Skin and body:** Protect skin and body when handling molten materials.

**Additional Protective Measures:** After handling materials, employees should wash their hands and face before eating, drinking, or using tobacco products.

## Section IX – PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point</b>	Not Available	<b>Evaporation Rate (Butyl Acetate = 1)</b>	Not available
<b>Vapor Pressure (mm Hg.)</b>	No available	<b>Decomposition Temperature</b>	288°C (550°F)
<b>Vapor Density (AIR = 1)</b>	Not available	<b>Autoignition Temperature</b>	>450°C (843°F)
<b>Solubility in Water</b>	Insoluble		

**Appearance and Odor:** Smooth, glossy black surface finish with odor similar to polycarbonate.

## Section X – STABILITY AND REACTIVITY

**Stability:** Stable under normal storage, handling and processing conditions

**Incompatibility (Materials to Avoid):** Strong oxidizing agents, acids and bases.

**Hazardous Decomposition or Byproducts:** By fire and thermal decomposition: Carbon monoxide, carbon dioxide and hydrocarbons.

**Hazardous Polymerization/Reactions:** Will not occur

**Conditions to Avoid:** Temperatures over 288°C (550°F)

## Section XI – TOXICOLOGICAL INFORMATION

**Toxicological data:** Not available for this product.

**Carcinogenicity:** Not listed by IARC, NIOSH, NTP or OSHA.

## Section XII – ECOLOGICAL INFORMATION

Do not allow material to be released to the environment without proper governmental permits.

Plastic pellets are inert and benign in terms of their physical impact on the environment. Material must not be released to the environment since they can be consumed by animal and aquatic species.

## Section XIII – DISPOSAL INFORMATION

Discarded product is not a Hazardous Waste under RCRA (40 CFR 261). Recycling or reuse of this product is encouraged. Dispose of this material in accordance with federal, state and local environmental regulations.

## Section XIV – TRANSPORTATION INFORMATION

**Transportation and Hazardous Materials Description:** This material is not a hazardous material for shipment in accordance with the US Department of Transportation or IATA regulations

## Section XV – REGULATORY INFORMATION

**OSHA Status:** This product is not regulated by 29 CFR 1910.1000 Subpart Z

**CERCLA Reportable Quantities:**

SARA Title III:

Section 302 Extremely Hazardous Substances: Not listed

Section 311/312: Threshold reporting quantity based on maximum amount of molten state material on site at one time

Section 313: Not listed

**US EPA CERCLA Hazardous Substances (40 CFR 302):** Not listed

**TSCA:** All ingredients are on the TSCA Chemical Substance Inventory or are exempt from listing.

**US EPA RCRA (40 CFR 261):** If discarded in its purchased form, this product would not be a hazardous waste either by listing or characteristic. However, under RCRA, it is the responsibility of the user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

**California Proposition 65:** Not listed

## **Section XVI – ADDITIONAL INFORMATION**

The chemical, physical and toxicological properties of this material have not been thoroughly investigated. Exercise due care.

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