

**BECTON  
DICKINSON**

Becton Dickinson and Company

**Material Safety Data Sheet**

Catalogue Number(s):

2002,2005,2006,2053,2059,2063,2070,2096,2097,2098,  
2198,4013,4014,4015,4017,4020,4696,7102,7103,7104,  
7105,7109,7111.**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION****Product Name:** Polypropylene Homopolymer Pellets**Synonyms:****Chemical Family:****Chemical Formula:****Manufacturer:** Becton Dickinson and Company**Division:** Becton Dickinson Labware**MSDS Number(s):****Address:** 1 Becton Drive**City:** Franklin Lakes**State:** New Jersey**Zip Code:** 07417-1886**Emergency Phone:** Day: 201-847-4267;

After hours: 201-847-6431

**Other Calls:** 201-847-4000, 800-333-4813**MSDS Prepared By:** Case Consulting Laboratories, Inc.**Effective Date:** April 22, 1998; Supersedes: April 1, 1995**SECTION 2 - COMPOSITION INFORMATION INGREDIENTS**

<b>Ingredient Name Common Name</b>	<b>CAS Number</b>	<b>Percent (wt)</b>	<b>Wgt Vol</b>	<b>Hazardous</b>
Polypropylene Homopolymer	9003-07-0	> 95		
Stabilizers	Trade Secret	< 5		

**OSHA PEL Exposure Limits:** Not Established**ACGIH TLV Exposure Limits:** Not Established**SECTION 3 - HAZARDS IDENTIFICATION**

**Emergency Overview:** These products are translucent to white solid pellets with a slight waxy odor. Spilled material may present a slipping hazard. These products as shipped are not classified as combustible dusts; however, a combustible concentration of dust may occur if fines are suspended in air. Avoid contact with strong oxidizing agents.

When working with this material at elevated temperatures, the material will begin to decompose, producing fumes that can contain carbon dioxide, carbon monoxide and other unidentifiable organic compounds that come from the breakdown of the material. Adequate room and extruder ventilation should be provided to minimize exposures.

**Relevant Route(s) of Exposure:**

**Signs and Symptoms of Exposure (Acute):** No known health effects. EYES: Fine particles of dust may cause mechanical irritation to the eyes and respiratory tract.

**Chronic Effects:****Medical Conditions Generally Known to be Aggravated by Exposure to the Material:****Potential Health Effects****Eyes:****Skin:****Ingestion:****Inhalation:**MEM#  
01306Cat#  
354696

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## SECTION 3 - HAZARDS IDENTIFICATION - (CONT.)

**SARA Hazards:** Acute: No Chronic: No Reactive: No Fire: No Pressure: No  
**Carcinogenicity:** NTP: No IRAC: No OSHA: No ACGIH: No Other:

## SECTION 4 - FIRST AID MEASURES

**Eyes:** Flush with water to remove particles.

**Skin:** Molten Resin - If molten material comes in contact with the skin, cool under ice water or a running stream of water. Do not attempt to remove the material from the skin. Removal could result in severe tissue damage. Seek medical attention.

**Ingestion:** N/A

**Inhalation:** N/A

**Antidotes:**

**Notes to Physicians:**

## SECTION 5 - FIRE FIGHTING PROCEDURES

**HMIS Codes:** Health: 0 Flammability: 1  
Reactivity: 0 Other:

**Flammable Limits in Air:** Upper Limit: N/A Lower Limit: N/A

**Flash Point Value:** > 329°C/625°F **Method Used:** Setchkin

**Auto-Ignition Value:** > 357°C/675°F

**Extinguishing Media:** Water spray, dry chemical, foam or carbon dioxide

**Fire Fighting Instructions:** Standard procedures for Class A fires. Use self-contained breathing apparatus and protective clothing for structural fire fighting.

**Unusual Fire and Explosion Hazards:** Products as shipped are not combustible dusts; however, a combustion concentration of dusts may occur when fines are suspended in air.

**Flammability Classification:** HMIS - 1 Slight

**Propagation or Burning Rate of Solid Materials:**

**Known or Anticipated Hazardous Products of Combustion:** Carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes, unidentified organic compounds.

**Properties of Both Flammable and Nonflammable Material that may Initiate or Uniquely Contribute to the Intensity of a Fire:**

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** Vacuum up or sweep up spilled material for use or disposal. Product can present a slipping hazard if spilled.

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**SECTION 7 - HANDLING AND STORAGE**

**Handling and Storage:** Keep away from sparks and open flame. This product may react with strong oxidizing agents and should not be stored near such materials. Store boxes and/or bags of material in areas protected with automatic sprinklers. Material may accumulate static charges during transfers. Use proper grounding and bonding techniques when samples, transferring, etc. Keep temperature below 60°C (140°F) for quality control purposes.

**Precautionary Label Statements:** Burn Risk - Avoid contact with molten resin. Explosion Risk - Prevent accumulation of dust particles. Slipping Risk - Keep walking surfaces free of spilled material. Vapor Risk - Provide ventilation to avoid exposure to process vapors.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls**

**Engineering Controls:** Provide adequate room ventilation, adequate ventilation at the extruder and eliminate ignition sources during repair and maintenance operations.

**Ventilation Needs:** Adequate room and extruder ventilation should be provided to minimize exposures.

**Personal Protective Equipment**

**Eye/Face Protection:** Safety glasses or goggles.

**Skin Protection:** When handling and/or processing resins at elevated temperatures or in a molten state, wear protective clothing over the skin to prevent contact.

**Respiratory Protection:** Appropriate respirator selected and used in accordance with OSHA Subpart I (20 CFR 1910.134) required when exposure to airborne contaminant is likely to exceed acceptable limits for nuisance dusts.

**Other Protective Clothing or Equipment:** Eyewash fountains and safety showers should be easily accessible

**Exposure Guidelines:**

**Work Hygienic Practices:**

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Boiling Point:** N/A

**Melting Point:** > 160°C/320°F

**Freezing Point:** > 160°C/320°F

**Physical State:**

**Viscosity @ 11°C:** N/A

**Molecular Weight:**

**pH:** N/A

**Concentration:**

**Weight per Gallon:**

**Evaporation Rate (-1):** N/A

**Vapor Pressure @ 20°C:** N/A

**Vapor Density (air=1):** N/A

**Specific Gravity:** 0.88-0.92

**Percent Volatile by Volume:** < 0.4

**Theoretical VOC Content % by Wt.:**

**Solubility in Water:** Negligible

**Reactivity in Water:**

**Appearance:** Translucent to white pellets

**Odor:** Slightly waxy

**SECTION 10 - STABILITY AND REACTIVITY**

**Stability:** Stable

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## SECTION 10 - STABILITY AND REACTIVITY - (CONT.)

**Conditions to Avoid:**

**Incompatibility with Other Materials:** Avoid contact with strong oxidizing agents.

**Hazardous Decomposition Products:** N/A

**Hazardous Polymerization:**

**Conditions to Avoid (Polymerization):**

## SECTION 11 - TOXICOLOGICAL INFORMATION

<u>LD<sub>50</sub> Value</u>	<u>Unit</u>	<u>LD<sub>50</sub> Animal</u>	<u>Routes</u>	<u>LD<sub>50</sub> Component</u>
<u>LC<sub>50</sub> Value</u>	<u>Unit</u>	<u>LC<sub>50</sub> Animal</u>	<u>Routes</u>	<u>LC<sub>50</sub> Component</u>

**Toxicological Information:** N/A

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecological Information:** Not readily biodegradable.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Disposal Considerations:** These products are not judged to be hazardous wastes by any local, state and federal regulations; however, they may be listed as industrial wastes in some states or provinces.

Waste management priorities (depending on quantity and quality of wastestream) are: (1) recycle (reprocess) (2) incineration including energy recovery of waste material in a permitted facility in accordance with local, state or provincial and/or federal regulations (3) landfilling in a licensed facility in accordance with local, state or provincial and/or federal regulations.

This product is not listed in the U.S. Federal Hazardous Waste Regulations 40 CFR 261.33 Paragraphs (E) or (F), i.e., chemical products that are considered hazardous if they become wastes. It does not exhibit any of the hazardous characteristics listed in 40 CFR 261, Subpart C, state of local hazardous waste regulations may apply if different from the federal.

## SECTION 14 - TRANSPORTATION INFORMATION

**Transportation and Hazardous Materials Description:** These products are not regulated by DOT, IMO, IATA, Canadian TDG and associated regulations, ADR or RID.

**Proper Shipping Name:**

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## SECTION 14 - TRANSPORTATION INFORMATION - (CONT.)

## DOT Label Information:

Hazard Class:      DOT ID Number:      Packing Group:

## SECTION 15 - REGULATORY INFORMATION

**U.S. Federal Regulations:** These products are listed on the TSCA inventory, are not subject to SARA Title III requirements and are not judged hazardous by Becton Dickinson according to OSHA definitions. These products are regulated under EPA's Clean Water Act/NPDES Rules as "Floating Material." In addition, these products are considered "Significant Materials" under the EPA's Storm Water Permit Rules.

## State Regulations:

**International Regulations:** Canada - These products are not considered controlled substances under WHMIS, are listed under CEPA on the DSL, and this MSDS meets WHMIS format requirements. Europe - These products are listed on EINECS/ELINCS

## SECTION 16 - OTHER INFORMATION

Other Information:

Definitions:    N/A=Not Applicable    U/K=Unknown

To the best of our knowledge, the information contained herein is accurate. However, neither Becton Dickinson and Company nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.