

# MATERIAL SAFETY DATA SHEET



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Revision No: New MSDS

Pro-fax PH229

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Pro-fax PH229  
**PRODUCT DESCRIPTION:** Polypropylene Homopolymer Pellets

**MANUFACTURER** Basell USA Inc.  
Three Little Falls Centre  
2801 Centerville Road  
P.O. Box 15439  
Wilmington, DE 19850-5439

**Contact:** CHEMTREC

**Product Stewardship:** 302-996-6000

**24 HR. EMERGENCY TELEPHONE NUMBERS** Emergency Phone: (800) 424-9300  
Basell Canada Inc.  
339 LaSalle Road  
Corunna, Ontario  
N0N 1G0

**Contact:** CANUTEC

**Product Stewardship:** 519-481-1111

**Emergency Phone:** (613) 996-6666

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
Polypropylene homopolymer	>95	9003-	07-0
Stabilizers (trade secret)	<5		

**COMMENTS:** This product is not considered a hazardous material at temperatures below the melting point as determined by Basell according to the U.S. Occupational Safety and Health Act definitions and regulation, including the Hazard Communication Standard 29 CFR 1910.1200. This product is not considered a controlled substance by Basell according to Canada's WHMIS regulations. Threshold Limit Values (TLV) or Permissible Exposure Limit (PEL) values are not established. This material is not expected to cause physiologic impairment at low concentration. Until a specific TLV is adopted by ACGIH (American Conference of Governmental Hygienists), or an OSHA (Occupational Safety and Health Administration) PEL standard is issued, Basell suggests that this material be treated as a nuisance dust or particulate in accordance with the recommendations of ACGIH.

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### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Translucent to white solid pellets

**IMMEDIATE CONCERNS:** Spilled material may present a slipping hazard. This product as shipped is not classified as a combustible dust; however, a combustible concentration of dust may occur if fines are suspended in air. Avoid contact with strong oxidizing agents. When working with the material at temperatures above the melting point, the material will begin to decompose producing fumes that can contain carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes and other unidentified organic compounds that come from the breakdown of the material. Adequate room and extruder ventilation should be provided to minimize exposures.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Process vapors may irritate eyes.

**SKIN:** Exposure to molten resin may cause thermal burns.

**INGESTION:** Not Applicable

**INHALATION:** Process vapors may cause respiratory tract irritation.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Irritation or redness.

**SKIN:** Not Applicable

**INGESTION:** Not Applicable

**INHALATION:** Irritation of the nose, throat and respiratory tract.

**ACUTE TOXICITY:** Exposure to process vapors may cause eye and respiratory tract irritation.

**CHRONIC:** None Known

**CARCINOGENICITY:** None Known

**MUTAGENICITY:** None Known

#### REPRODUCTIVE TOXICITY

**REPRODUCTIVE EFFECTS:** None Known

**TERATOGENIC EFFECTS:** None Known

**MEDICAL CONDITIONS AGGRAVATED:** None Known

**ROUTES OF ENTRY:** Eye, Inhalation

**TARGET ORGAN STATEMENT:** None Known

**CANCER STATEMENT:** This product is not considered to be a carcinogen by OSHA, IARC or NTP.

**IRRITANCY:** Exposure to process vapors may cause eye and respiratory tract irritation.

**SENSITIZATION:** None Known

**WARNING CAUTION LABELS:** 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.

**COMMENTS HEALTH:** None

**HEALTH HAZARDS:** Process vapors may cause eye and respiratory tract irritation.

**PHYSICAL HAZARDS:** Spilled material may present a slipping hazard.

Exposure to molten resin may cause thermal burns.

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### 4. FIRST AID MEASURES

**EYES:** Flush eyes with water for 15 minutes. Get medical attention.

**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. Get medical attention.

**INGESTION:** Not Applicable

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**ANTIDOTES:** Not Applicable

**NOTES TO PHYSICIAN:** None

**ADDITIONAL INFORMATION:** None

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#### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** >329°C (625°F)

**FLAMMABLE LIMITS:** Not Determined

**AUTOIGNITION TEMPERATURE:** >357°C (675°F)

**EXTINGUISHING MEDIA:** Use foam, carbon dioxide, or water spray when fighting fires involving this material.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes, unidentified organic compounds.

**EXPLOSION HAZARDS:** Product as shipped is not a combustible dust. However, a combustible concentration of dust may occur when fines are suspended in air.

**FIRE FIGHTING PROCEDURES:** Standard procedures for Class A fires.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained pressure demand breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

**SENSITIVE TO STATIC DISCHARGE:** Static discharge could be an ignition source for a combustible concentration of dust.

**SENSITIVITY TO IMPACT:** Not Applicable

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#### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Sweep up material and place in a disposal container.

**LARGE SPILL:** Vacuum or sweep up material and place in a disposal container.

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Keep pellets out of waterways.

**LAND SPILL:** Vacuum or sweep up material and place in a disposal container.

**AIR SPILL:** Not Applicable

**GENERAL PROCEDURES:** Vacuum or sweep up material and place in a disposal container.

**RELEASE NOTES:** None

**SPECIAL PROTECTIVE EQUIPMENT:** None

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#### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Keep away from heat, sparks and flame.

**HANDLING:** Ground and bond containers when transferring material.

**STORAGE:** This product may react with strong oxidizing agents and should not be stored near such materials. Store boxes and bags of material in areas protected with automatic sprinklers.

**STORAGE TEMPERATURE:** 60°C (140°F) maximum

**LOADING TEMPERATURE:** Not Determined

**LOADING/UNLOADING VISCOSITY:** Not Determined

**STORAGE PRESSURE:** Not yet Determined

**STORAGE TEMPERATURE:** Store in a cool place below 140 F, 60 C.

**LOADING TEMPERATURE NOTES:** Not yet Determined

**SHELF LIFE:** Not Determined

**SPECIAL SENSITIVITY:** Not yet Determined

**ELECTROSTATIC ACCUMULATION HAZARD:** Material may accumulate static charges during transfers. Ground and bond containers when transferring material.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Provide adequate room ventilation.

Provide adequate ventilation at the extruder to minimize exposure to process vapors.

Eliminate ignition sources during repair and maintenance operations.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses with side shields (or goggles).

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

**RESPIRATORY:** A respiratory protection program that meets OSHA 1910.134, ANSI Z88.2 and/or CSA Z94.4-93 requirements must be followed whenever workplace conditions warrant use of a respirator.

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

**WORK HYGIENIC PRACTICES:** Not Established

**OTHER USE PRECAUTIONS:** Eyewash fountains and safety showers should be easily accessible.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Solid

**ODOR:** Slight waxy odor

**APPEARANCE:** Pellet

**COLOR:** Translucent to white

**FREEZING POINT:** Not Applicable

**MELTING POINT:** >160°C (320°F)

**DENSITY:** Not Determined

**SPECIFIC GRAVITY:** 0.88 to 0.92

**VISCOSITY:** Not Available

**MOLECULAR WEIGHT:** Not Available

**(VOC) NOTES:** Not yet Determined

### COMMENTS:

**PHYSICAL STATE:** None

**PERCENT VOLATILE:** < 0.4%

**VAPOR PRESSURE:** Not Applicable

**VAPOR DENSITY:** Not Applicable

**BOILING POINT:** Not Applicable

**WATER SOLUBILITY:** Negligible

**EVAPORATION RATE:** Not Applicable

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## 10. STABILITY AND REACTIVITY

**STABLE:** YES

**HAZARDOUS POLYMERIZATION:** NO

**CONDITIONS TO AVOID:** Keep away from heat, sparks and flame.

**POLYMERIZATION:** Product will not undergo polymerization.

**HAZARDOUS DECOMPOSITION PRODUCTS:** At elevated temperatures the material will begin to decompose, producing fumes that can contain carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes, unidentified organic compounds.

**INCOMPATIBLE MATERIALS:** Oxidizing materials.

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**11. TOXICOLOGICAL INFORMATION**

**GENERAL COMMENTS:**

Polypropylene Homopolymer Toxicological Information  
LD50/LC50 - LETHAL DOSE/CONC 50% KILL

**A. Rat**

1. LD50; Route: Intraperitoneal; Dose: >110 gm/kg; Toxic Effects: Sense Organs and special senses - Lacrimation; Sense organs and special senses - Ptosis; Behavioral - Convulsions or effect on seizure threshold; Reference: Yakuri to Chiryu. Pharmacology and Therapeutics 14:1109, 1986. <CODEN YACHDS>

2. LD50; Route: Intravenous; Dose: >99 gm/kg; Toxic Effects: Behavioral - Tremor; Lungs, Thorax, or Respiration - Cyanosis; Nutritional and Gross Metabolic - Body temperature decrease; REFERENCE: Yakuri to Chiryu. Pharmacology and Therapeutics 14:1109, 1986. <CODEN YACHDS>

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**12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:** Not Available

**ECOTOXICOLOGICAL INFORMATION:** Not Determined

**DISTRIBUTION:** Not Determined

**CHEMICAL FATE INFORMATION:** Not readily biodegradeable.

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**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** (1) Recycle (reprocess). (2) Incineration including energy recovery of waste material in a permitted facility in accordance with local, state or provincial and federal regulations. (3) Landfilling in a licensed facility in accordance with local, state or provincial and federal regulations.

**RCRA HAZARD CLASS:** This product is not judged to be a hazardous waste by any local, state or federal regulations; however, it may be listed as industrial waste in some states or provinces. 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 or local hazardous waste regulations may apply if different from the federal.

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**14. TRANSPORT INFORMATION**

**SPECIAL SHIPPING NOTES:** This product is not regulated by DOT, IMO, IATA, Canadian TDG and associated regulations, ADR or RID.

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**15. REGULATORY INFORMATION**

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**TITLE III NOTES:** This product is not subject to SARA Title III requirements.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA STATUS:** All ingredients in this product are in compliance with TSCA.

**OSHA HAZARD COMM. RULE:** This product is not considered a hazardous material at temperatures below the melting point as determined by Basell according to OSHA definitions.

**CLEAN WATER ACT:** This product is regulated under EPA's Clean Water Act/NPDES rules as "floating material". In addition, this product is considered "significant material" under the EPA's storm

water permit rules.

**CANADA**

**WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM):** This product is not considered a controlled substance under WHMIS.

This MSDS meets WHMIS format requirements.

**CANADIAN ENVIRONMENTAL PROTECTION ACT:** All ingredients in this product are listed under CEPA on the DSL.

**EUROPEAN COMMUNITY**

**EUROPEAN COMMUNITY REGULATORY:** All ingredients are in compliance with EINECS/ELINCS.

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**16. OTHER INFORMATION**

**APPROVED BY:** Richard T. LeNoir      **TITLE:** Manager, Product Stewardship

**REVISION SUMMARY** New MSDS

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