



Material Safety Data Sheet

Section 1

MSDS: Polypropylene
Copolymer Unfilled

Dynamic Polymer Solutions
Telephone Numbers: (810) 324-1451
Chemtrec - Transportation Emergency:
(800) 424-9300

MATERIAL IDENTIFICATION

PRODUCT NAME:	DYN-PPC201, DYN-PPC202 DYN-PPC301, DYN-PPC302		
CHEMICAL NAME:	Polypropylene/Ethylene Copolymer		
CAS NO.:	Polypropylene/Ethylene Copolymer	9010-79-1	96.00%
	Carbon Black (if Black)	1333-86-4	4.00%
PRODUCT USE:	Injection Molding		

Section 2

HAZARDOUS INGREDIENTS (Additives not hazardous by 29 CFR 1910.1200)

Identity	CAS Number	Concentration

Section 3

HEALTH HAZARD DATA

Acute or immediate effects:

Routes of entry and systems: Inhalation, Skin contact, Eye contact

Ingestion:	Ingestion of this material is not likely to be harmful
Skin:	Unlikely to cause skin irritation or injury. Molten material causes thermal burns. This material is unlikely to pass into the body through skin.
Eye:	Dust can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Molten material causes thermal burns.
Inhalation:	This material is a dust, or may produce dust. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.



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Section 4

EMERGENCY FIRST AID

Eyes: IF symptoms develop, move individual away from exposure, and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist, or there is any visual difficulty, seek medical attention. If eye contact with molten material occurs, hold eyelids apart and flush eyes gently with cool water. Seek immediate medical attention.

Skin: First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water. If skin contact with molten material occurs, flush exposed area with cool water. Do not forcibly remove material adhering to the skin. Seek immediate medical attention.

Inhalation: First aid is not normally required. If symptoms develop, move individual away from exposure, and into fresh air. If symptoms persist, seek medical attention.

Ingestion: First aid is not normally required. If symptoms develop, seek medical attention

Chronic Effects:

Medical Conditions generally aggravated by this material: Preexisting disorders of the following organs or organ systems may be aggravated by exposure to this material: Lung (i.e. Asthma-like conditions).

Section 5

FIRE AND EXPLOSION HAZARD DATA

Flash Ignition Temperature: N/A

Unusual Fire/Explosion Hazards: No special fire hazards are known to be associated with this product.

Hazardous Combustion Products: May form acrolein (C₃H₄O), aldehydes, carbon dioxide (CO₂), and carbon monoxide (CO), formaldehyde (CH₂O), ketones, and various hydrocarbons.

Special Fire Fighting Instructions: Wear full firefighting turnout gear (full bunker gear), and a respiratory protection (SCBA).

Extinguishing Media: Foam, Water Fog, Carbon Dioxide (CO₂), Dry Chemical



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Section 6

ACCIDENTAL RELEASES

Spill or Release: Thoroughly sweep and/or shovel material (depending on spill size) into containers for disposal or recovery. Plastic pellets may present a slipping hazard when spilled on walking surfaces.

Section 7

STORAGE CONDITIONS

NORMAL HANDLING: No adverse health effects are anticipated from the product at room temperature. However, at process temperatures, the product can emit fumes and vapors that may cause irritation of the eyes and respiratory tract. Any exposure will depend upon processing technique and temperature, volume processed, and the effectiveness of exhaust ventilation provided for the process. Effects of chronic exposure to off-gases at processing temperatures have not been fully evaluated. Generally, flame retardant additives and pigment additives are encapsulated in an impervious plastic matrix. These additives are not expected to present a hazard. Pellets may build up static electricity when being transferred from one container to another. Mechanical handling equipment can cause formation of dusts. Maintain good housekeeping. Dust layers should not be permitted to accumulate in order to avoid any potential for dust explosion hazards.

Storage Temperature (Min/Max):

Shelf Life:

Special Sensitivity:

STORAGE RECOMMENDATIONS:

Section 8

PROTECTION INFORMATION

Eye: Wear safety glasses in compliance with OSHA regulations.

Skin: Consult your safety products supplier for proper protective equipment to use in thermal processing operations. Not normally required for handling of product. Wear



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normal work clothing covering arms and legs. Other protective equipment: Consult your safety products supplier for proper protective equipment to use for thermal processing operations.

Ventilation: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

Respirator: If overexposure has been determined or documented, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.

Additional Protective Measures:

Section 9

PHYSICAL/CHEMICAL DATA

Appearance: Pellets; translucent to white

Odor: Slight waxy

Melting Point:

Solubility in Water: Insoluble

Volatile Content %: < 0.4%

Specific Gravity: 0.880-0.920 @ 77F

Section 10

HAZARDOUS REACTIVITY

Stability at Room Temperature: Stable

Materials to Avoid: Strong oxidizing agents

Conditions to Avoid:

Decomposition Temperature:

Decomposition Products: May form acrolein (C₃H₄O), aldehydes, carbon dioxide (CO₂), and carbon monoxide (CO), formaldehyde (CH₂O), ketones, and various hydrocarbons.

Section 11



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TOXICOLOGICAL INFORMATION

Toxicity Data for: PP UF CO

Acute Toxicity

No Data

Medical Conditions Prone to Aggravation by Exposure: Preexisting disorders of the lungs (asthma-like conditions).

Carcinogenicity: This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration

NTP –

IARC –

OSHA -

Section 12

ECOLOGICAL INFORMATION

No ecological information available

Section 13

DISPOSAL

Waste Disposal: Dispose of in accordance with all applicable local, state, and federal regulations.

Section 14

TRANSPORT INFORMATION

DOT Hazard Class: Non-regulated by DOT

Technical Shipping Name:

Freight Class Bulk:

Freight Class Package:

Product Label:

The transport information may vary with the container and mode of shipment.



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Section 15

REGULATORY INFORMATION

OSHA Status:

SARA TITLE III:

Section 302 – Extremely Hazardous Substances: None

Section 311/312 Hazard Categories: Immediate Health Hazard

Section 313 Toxic Chemicals: None

RCRA Status: None

United States TSCA Status: The intentional ingredients of this product are listed.

STATE RIGHT TO KNOW LAWS – The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements, contact the appropriate agency in your state

Component Name	
CAS Number	Concentration

PENNSYLVANIA:

None

CALIFORNIA:

None

SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER:

None

SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM:

None

HMIS Rating

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Health	1
Flammability	0
Reactivity	0
PPE	
# Acute *Chronic	



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MISCELLANEOUS INFORMATION

The information set forth herein has been gathered from standard reference materials and/or supplier test data and is, to the best knowledge and belief of Dynamic Polymer Solutions, accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones that exist. Dynamic Polymer Solutions makes no warranties, expressed or implied, with respect to the use of such information or the use of the specific material identified herein in combination with any other material or process, and assumes no responsibility therefore.

END OF MSDS