



Material Safety Data Sheet

Section 1

MSDS: Polypropylene
Homopolymer Glass Filled

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

MATERIAL IDENTIFICATION

| | | | |
|-----------------------|---------------------------------------|------------|--------------|
| PRODUCT NAME: | DYN-PPH10G, DYN-PPH20G, DYN-PPH30G | | |
| CHEMICAL NAME: | Polypropylene Homopolymer | | |
| CAS NO.: | Polypropylene Homopolymer | 9003-07-0 | <70% |
| | Glass Fiber Filament | 65997-17-3 | <30.0% |
| | Carbon Black (if Black) | 1333-86-4 | < 2.0 – 4.0% |
| 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: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: irritation (nose, throat, airways).

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

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| Ingestion: | Swallowing 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 the skin. |
| Eye: | Dust can cause eye irritation. Symptoms include stinging, tearing, |



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| | 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. |

Section 4

EMERGENCY FIRST AID

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| 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 plenty of 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: | Thermal processing of this product can produce fumes and/or vapors. Components of these releases may vary with processing times and temperatures and therefore specific composition cannot be predicted. These fumes and/or vapors may produce eye, skin, and/or respiratory tract irritation. With repeated and prolonged exposure at high concentrations, these fumes and/or vapors could cause central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache). |
| Medical Conditions generally aggravated by this material: | Preexisting disorders of lungs (i.e. asthma-like conditions). |



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Section 5

FIRE AND EXPLOSION HAZARD DATA

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| 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, aldehydes, carbon dioxide, carbon monoxide, formaldehyde, ketones, various hydrocarbons |
| Special Fire Fighting Instructions: | Wear full firefighting turn-out gear (full bunker gear), and respiratory protection (SCBA) |
| Extinguishing Media: | Regular foam (such as AFFF), water fog, carbon dioxide, dry chemical |

Section 6

ACCIDENTAL RELEASES

Spill or Release: Sweep up or shovel materials into containers for disposal or recovery. Plastic pellets may present a slipping hazard when spilled on walking surfaces. Thoroughly sweep area of spill to clean up any residual material.

Section 7

STORAGE CONDITIONS

NORMAL HANDLING

No adverse health effects are anticipated from the product at room temperature. However, at process temperature, the product can emit fumes and vapors that may cause irritation of the eyes and respiratory tract. Any exposure will depend on 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 RECOMMENDATIONS:



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Section 8

PROTECTION INFORMATION

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| Eye: | Wear safety glasses in compliance with OSHA regulations. Consult your safety representative |
| Skin: | Not normally required for handling of product. Wear normal work clothing covering arms and legs. Other protective equipment: Consult your safety product 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 |
| Exposure Guidelines: | Polypropylene/Ethylene Copolymer (9010-79-1): No exposure limits established Stabilizers: No exposure limits established |

Section 9

PHYSICAL/CHEMICAL DATA

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|-----------------------------|--------------------------------------|
| Appearance: | Translucent to White Pellets (solid) |
| Odor: | Slight Waxy |
| Melting Point: | No Data |
| Solubility in Water: | Insoluble |
| Volatile Content %: | < 0.4% |
| Specific Gravity: | 0.880-0.920 at 77F |

Section 10

HAZARDOUS REACTIVITY

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|---------------------------------------|-------------------------|
| Stability at Room Temperature: | Stable |
| Materials to Avoid: | Strong Oxidizing Agents |
| Conditions to Avoid: | |



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| Decomposition Temperature: | |
| Decomposition Products: | May form: acrolein aldehydes, carbon dioxide, carbon monoxide, formaldehyde, ketones, various hydrocarbons |

Section 11

TOXICOLOGICAL INFORMATION

No toxicological data available.

Section 12

ECOLOGICAL INFORMATION

No ecological data 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: | Not regulated |
| Technical Shipping Name: | Not Applicable |
| Freight Class Bulk: | Not Applicable |
| Freight Class Package: | Not Applicable |
| Product Label: | Not Applicable |

Section 15

REGULATORY INFORMATION



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OSHA Status: None Listed

SARA TITLE III:

Section 302 – Extremely Hazardous Substances: None

Section 311/312 Hazard Categories: Immediate Health Hazard

Section 313 Toxic Chemicals: None

RCRA Status:

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 |

CALIFORNIA:

| | |
|------|-----|
| None | |
| N/A | N/A |

SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER:

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| None | |
| N/A | N/A |

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

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|------|-----|
| None | |
| N/A | N/A |

NFPA Rating

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

| | |
|------------------|---|
| Health | 1 |
| Flammability | 0 |
| Reactivity | 0 |
| PPE | |
| # Acute *Chronic | |



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Section 16

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