

## MATERIAL SAFETY DATA SHEET

Product Line: Flat bags, gusset bags

### SECTION I – Chemical Product and Company Identification

**Chemical Name and Synonyms:** Polypropylene  
**Chemical Family:** Polyolefin  
**C.A.S. No.:** 9003-07-0  
**Formula:**  
(CH -CH<sub>2</sub>)<sub>n</sub>  
|  
CH<sub>3</sub>

### SECTION II – Composition / Information on Ingredients

Chemical Name	WT.%	CAS#
Polypropylene	-	9003-07-0

This product is not considered to be hazardous under normal processing conditions.

### SECTION III – Hazards Identification

#### POTENTIAL HEALTH EFFECTS

**EYE:** Process vapors irritate eyes.  
**SKIN:** Exposure to molten resin may cause thermal burns.  
**INHALATION:** Process vapors may cause respiratory tract irritation.  
**INGESTION:** Not Applicable.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYE:** 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.

**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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#### SECTION IV – First-aid Measures

**EYE:** 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. Remove could result in severe tissue damage. Get medical attention.

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

**INGESTION:** Not Applicable.

**ANTIDOTES:** Not Applicable.

**NOTES TO PHYSICIAN:** None.

**ADDITIONAL INFORMATION:** None.

#### SECTION V – Fire Fighting Measures

**FLASHPOINT AND METHOD:** Not Determined.

**FLAMMABLE LIMITS:** Not Yet Determined.

**AUTOIGNITION TEMPERATURE:** Not Determined.

**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.

**SPECIAL FIRE FIGHTING PROCEDURES:** Respiratory and eye protection required for fire fighting personnel.

**UNUSAL FIRE AND EXPLOSION HAZARD:** Oxygen lean conditions may produce carbon monoxide and irritating smoke.

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

**SENSITIVITY TO IMPACT:** Not Applicable.

#### SECTION VI – 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 from waterways.

Land Spill: Not Yet Determined.

Air Spill: Not Yet Determined.

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

**RELEASE NOTES:** None.

**SPECIAL PROTECTIVE EQUIPMENT:** None.

#### SECTION VII – Handling and Storage

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

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

**STORAGE TEMPERATURE:** Ambient Temperature.

**LOADING TEMPERATURE:** Ambient Temperature.

**STORAGE PRESSURE:** Atmospheric.

**STORAGE PRECAUTIONS:** Store in a cool place, well-ventilated place away from incompatible materials.

Store away from direct of sunlight, especially for extend period of storage.

**LOADING TEMPERATURE NOTES:** Not Yet Determined.

**SHELF LIFE:** Not Yet Determined.

**SPECIAL SENSITIVITY:** Not Yet Determined.

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

### SECTION VIII – Exposure Controls / Personal Protection

**ENGINEERING CONTROLS:** Provide adequate room ventilation. Provide adequate ventilation at the extruder to minimized 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:** Where concentrations in air may exceed the limits given, work practice or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation.

**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.

### SECTION IX – 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

**DENSITY:** 0.910 g/cm<sup>3</sup>

**SPECIFIC GRAVITY:** Not Applicable

**MOLECULAR WEIGHT:** Not Applicable

**VISCOSITY:** Not Applicable

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

**COMMENTS:**

**PHYSICAL STATE:** None

**PERCENT VOLATILE:** Not Applicable

**VAPOR PRESSURE:** Not Applicable

**BOILING POINT:** Not Applicable

**WATER SOLUBILITY:** Not Applicable

**EVAPORATION RATE:** Not Applicable

### SECTION X – Stability and Reactivity

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

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

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

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

### SECTION XI – Toxicological Information

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**GENERAL COMMENTS:** Please refer to Section 3 for available information on potential health effects.

### SECTION XII – Ecological Information

**ENVIRONMENTAL DATA:** Not Available.  
**ECOTOXICOLOGICAL INFORMATION:** Not Available.  
**DISTRIBUTION:** Not Available.  
**CHEMICAL FATE INFORMATION:** Not readily biodegradable.

### SECTION XIII – 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. Land filling in a licensed facility in accordance with local, state or provincial and federal regulations.

### SECTION XIV – Transport Information

Not applicable, this product is not transport regulated.

### SECTION XV – International Standard Information

**Thailand:**

**International Standard Organization (ISO)  
Management System Certification Institute (MSCI)**

Thai Polypropylene Co., Ltd. and Thai Polypropylene (1994) Co., Ltd. has been assessed and found to be conforming to the requirements of TIS / ISO 9001:2000, TIS/ISO 18000 and TIS / ISO 14001.

### SECTION XVI – Other Information

1. The HSE recommend the following standards for personal exposure to the dust of biologically inert material such as polypropylene:  
TWA Hour 10 mg/m Total dust.  
TWA Hour 5 mg/m Respirable dust.
2. Product can accumulate static charge which can cause an incendiary electrical discharge.

### MANUFACTURER DISCLAIMER:

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