

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 -CH₂)_n
|
CH₃

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/cm³

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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