Seelye Acquisitions, Inc.
dba: Seelye, Inc.
(407) 656-6677 • (800) 258-2936
(407) 656-5244 Fax

Material Safety Data Sheet
Copoly

MSDS Number: C4004Q

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Product Name: **TI, TS 9000 through 9999, TPI, PA, PC, PF, PH, PJ, PL, PN, PP, PQ, PS, PT, PV, PW, PX, PG, MA, MC, MF, MH, MJ, ML, MN, MP, MQ, MS, MT, MV, MW, MX, MG, KA, KC, KF, KH, KJ, KL, KN, KP, KQ, KS, KT, KV, KW, KX, KG, GI, DA, DC, DF, DH, DJ, DL, DN, DP 00 through 99, DA, DS, DT, DV, DW, DX, DG, CA, CC, CF, CH, CJ, CL, CN, CP 00 through 99, CQ, CS, CT, CV, CW, CX, CG, AA, AC, AF, AH, AJ, AL, AN, AP, AQ, AS, AT, AV, AW, AX, AG, Polypropylene Impact Copolymer**

Section – 1 Product Identification

Product Name: Polypropylene Impact Copolymer
Synonyms: N/A
Chemical Name: 1-propene, polymer with ethane
Division: Polymers

Section 2 – Hazardous Ingredients

Ingredient Name	CAS No.	% WT	Exposure Limits
**Impact Polypropylene*			
Ethylene-Propylene Copolymer	9010791	3-25	N (Hazardous) N/A (OSHA PEL TWA) N/A (ACGIH TLV TWA)
Polyethylene	9002884	3-25	N (Hazardous) N/A (OSHA PEL TWA) N/A (ACGIH TLV TWA)
Polypropylene	25085534	55-97	N (Hazardous) N/A (OSHA PEL TWA) N/A (ACGIH TLV TWA)

**Mixture: Chemicals which follow this listed chemical are part of the listed mixture.*

Section 3 – Hazard Identification

Emergency Overview: Caution! Generally recognized as a low potential industrial hazard. Inhalation of vapors from thermal processing may cause irritation to the upper respiratory tract.

Relevant Routes of Exposure:	Inhalation
Signs and Symptoms of Acute Overexposure:	Inhalation of vapors and smoke from thermal processing may cause irritation to the upper respiratory tract. Symptoms may include burning sensation, coughing and sore throat. Molten resin may cause severe thermal burns to the eyes and skin. Symptoms may include redness, pain, blistering, and swelling of the affected areas.
Signs and Symptoms of Chronic Overexposure:	No known chronic health effects have been observed with normal product use.
Medical Conditions Generally Aggravated by Exposure:	Any vapors or airborne particulate matter exposure may adversely affect individuals with chronic respiratory disorders. Persons with preexisting skin disorders may be more susceptible to the effects of this material.

Potential Health Effects:

Eyes:	Transient irritation from contact with product. Possible irritation from decomposition and processing fumes. Thermal burns from molten material.
Skin:	Thermal burns from molten material.
Ingestion:	Product in marketed form is inert.
Inhalation:	Prolonged or repeated exposure from thermal processing may cause irritation to the upper respiratory tract.

Carcinogenicity:

NTP:	N/A
IARC:	N/A
OSHA:	N/A
ACCIII:	N/A
Other:	N/A

Section 4 – First Aid Measures

Eyes:	Flush immediately with plenty of cool water for at least 12 minutes. Call a physician.
Skin:	For thermal burns, immediately flush with plenty of cold water. If possible, submerge affected areas in cold water. Call a physician.

Ingestion: Product in marketed form is inert. No special first aid procedures necessary.

Inhalation: For overexposure to heated resins, remove from exposure. If breathing is difficult, or has stopped, administer artificial respiration (mouth-to-mouth) or oxygen as indicated. Call a physician.

Section 5 – Fire Fighting Procedures

Flammable Limits in Air *(% by Volume):* N/A **Flash Point:** N/A

Extinguishing Media: Use water spray, carbon dioxide or dry chemicals to extinguish fire.

Fire Fighting Instructions: Firefighters should wear self-contained breathing apparatus and protective clothing when fighting fires of this type. Use cold water spray to cool fire-expose containers.

Unusual Fire and Explosion Hazards: Combustion products may be hazardous.

Known or Anticipated Hazards Products of Combustion: Combustion products may include carbon dioxide, carbon monoxide and acrid smoke and vapors.

Section 6 – Accidental Release Measures

Accidental Release Measures Methods for Cleanup: If released or spilled, sweep up and place loose material in labeled container. Loose pellets may present a slipping hazard. Clean up immediately.

Section 7 – Handling and Storage

Handling: Avoid excessive breathing of vapors, fumes and smoke which may be released during thermal processing.

Storage: Store in cool, dry area.

Section 8 – Exposure Controls/Personal Protection

Ventilation Requirements: Local exhaust ventilation should be used to control the emission of air contaminants.

Personal Protective Equipment:

Eye/Face: Wear chemical safety goggles/glasses to prevent eye contact. A face shield should be used when appropriate to prevent contact with molten product.

Skin:	When necessary, garments for protection against hot materials should be used to prevent skin contact with molten product.
Respiratory:	Respiratory protection approved by NIOSH for protection against organic vapors and dusts/mists should be used to avoid inhalation of excessive air contaminants.
Other Protective	Emergency eye wash stations should be available in the work area. General dilution ventilation may assist with the reduction of air contaminant concentrations.

Section 9 – Physical/Chemical Properties

Appearance:	Opaque whitish pellets (natural resin) or Opaque black pellets (black resin)		
Boiling Point:	N/A	**Molecular/Chemical Formula:**	Mixture
Evaporation:	N/A	**Bulk Density:**	N/A
Freezing Point:	N/A	Melting Point:	160–170° C (softening)
Octanol/Water Partition Coefficient:	N/A	**Water/Oil Distribution Coefficient:**	N/A
Odor:	Odorless	**Odor Threshold:**	N/A
Percent Volatile:	N/A	**pH Value:**	N/A
Physical State:	Solid	**Reactivity in Water:**	N/A
Solubility in Water:	Negligible	**Specific Gravity or Density** *(Water – 1):*	0.90-0.91 (@ 25° C)
Vapor Density:	N/A	**Vapor Pressure:**	Negligible

Section 10 – Stability/Reactivity

Stability:	Stable
Conditions to avoid:	None known
Incompatibility with Other Materials:	Potassium permanganate, liquid chlorine, fuming nitric acid and other strong oxidizing agents.
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide, organic oxidation products, acrid smoke and vapors.

Hazardous Polymerization: Will not occur.

Conditions to avoid: None known

Section 11 – Toxicological Information			
Value	**Animal**	**Routes**	**Components**
N/A	N/A	N/A	N/A

Toxicology Information: Polypropylene has been tested in laboratory rats by subcutaneous implantation of discs or powder. Local sarcomas were induced at the site of implantation. No epidemiological studies or case reports suggest any serious chronic health hazards from long-term exposure to polypropylene decomposition products below the irritation level (IARC. 19,218).

Section 12 – Ecological Information

Ecological Information: No ecological data are currently available.

Section 13 – Disposal Considerations

Disposal Considerations: Dispose of in accordance with local, state and federal requirements.

Section 14 – Transport Information

U.S. DOT

Proper Shipping Name: N/A **Hazard Class:** N/A

ID Number: N/A **Packing Group:** N/A

Section 15 – Regulatory Information

U.S. Federal Regulations: Toxic Substances Control Act (TSCA) Inventory – Yes

State Regulations: N/A

International Regulations: European Inventory (EINECS) – Unknown
Canadian Inventory (DSL) – Yes

SARA Hazards:

Acute: No **Chronic:** No

Reactive: No **Fire:** No

Pressure: No

Section 16 – Other Information

NFPA Codes:

Health:	1	**Flammability:**	1
Reactivity:	0		

HMIS Codes:

Health:	0	**Flammability:**	1
Reactivity:	0		

Label Statements: Generally recognized as a low potential industrial health hazard. Inhalation of vapor from thermal processing may cause irritation of the upper respiratory tract. Contact with molten resins causes thermal burns. Pellets may present a slipping hazard.

Avoid contact with molten resin.
Avoid inhalation of smoke and vapors.
Avoid contact of smoke or vapors with eyes.

Other Information: If you require additional information regarding any legal or regulatory requirements referred to in the MSDS, we suggest that you consult with an appropriate regulatory agency, or with a professional with expertise in this area.

Reason for Update: Incorporate Epsilon Products

This MSDS was prepared in accordance with the ANSI Z400.1 1993 Guideline for the preparation of Material Safety Data Sheets.

Key
N/A = Not Applicable
ACCIH = American Conference of Governmental Industrial Hygienists
NIOSH = National Institute of Occupational Safety and Health
SARA = Superfund Amendment and Reauthorization Act
CNS = Central Nervous System
OSHA = Occupational Safety and Health Administration
TLV = Threshold Limit Value
PEL = Permissible Exposure Limit
TWA = Time Weighted Average
STEL = Short Term Exposure Limit
CEIL = Ceiling Limit Value