

Formosa Plastics Corporation, Texas

Material Safety Data Sheet

MANUFACTURER

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MSDS No:

PP002

Preparation Date:

5/5/2004

Supersedes Date:

12/11/2000

1. PRODUCT IDENTIFICATION

Product Name: Formolene PP Copolymer
Product Code: Formolene PP Copolymer, All Grades
Chemical Family: Polyolefin
Chemical Name: Ethylene-Propylene Copolymer
CAS No: 9010-79-1
Synonyms: Polypropylene Copolymer, PP Copolymer, Block Copolymer, Random Copolymer, TPO
Formula: $(C_3H_6)_x-(C_2H_2)_y$
Technical Information: (361) 987-7453

2. PRODUCT INGREDIENTS

No.	Components	CAS No.	Percent (%)	OSHA PEL
P	PP Copolymer	9010-79-1	100	Not established

3. PHYSICAL/CHEMICAL PROPERTIES

Physical Form: Pellets
Color: Translucent
Odor: Slightly paraffinic
Molecular Weight: Not applicable
Boiling Point: Not available
Melting Point: 248 - 338°F (120 - 170°C)
Freezing Point: Not applicable
Solubility in Water: Insoluble
Specific Gravity: 0.9 (water = 1) Bulk Density: 400 - 600 kg/M3
Vapor Density: Not applicable (air = 1)
Evaporation Rate: Not applicable (Butyl Acetate = 1)
Vapor Pressure: Not applicable
% Volatile: Not applicable
pH: Not applicable

The physical data presented above are typical values and should not be construed as a specification.

4. FIRE HAZARD DATA AND FIGHTING METHOD

Flash Point: Not applicable
Autoignition: Not established
Flammable Limits In Air (LEL, %)
(UEL, %) Not applicable
Extinguishing Media: Dry chemical, carbon dioxide, alcohol-type or universal type foam, water spray.
Special Fire Fighting Procedure: Thermal decomposition may occur at temperature greater than 390 degrees C. In the event of a fire, wear NIOSH approved, positive pressure, self-contained

breathing apparatus (SCBA) and full protective clothing. Extinguish fires with water, foam or dry chemical. Do not use water jet.

Unusual Fire and Explosion Hazards:

Avoid accumulation and dispersion of dust to reduce explosion potential. Fire may produce irritating gases and dense smoke.

5. HUMAN HEALTH DATA

Emergency Overview: Practically nontoxic.
Primary Route(s) of Exposure: Inhalation, Eye, Skin Contact

Potential Health Effects and Symptoms of Over-Exposure

Negligible hazard at room temperature under normal use.

Eye Contact: Solid particles or dust may cause transient irritation as a result of mechanical abrasion. Process fumes may cause irritation.
Skin Contact: Essentially no irritation to skin. Mechanical injury only. Hot solid may cause thermal burns.
Inhalation: Exposure to dust at high concentration may cause irritation to the respiratory tract.
Ingestion: May cause choking if swallowed.

Medical Conditions Aggravated by Overexposure:

Not expected. Copolymer is generally accepted as being biologically inert.
 No specific antidotal treatment, symptomatic support required.

Carcinogenicity:	NTP: No IARC: No OSHA: No
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6. FIRST AID MEASURES

Eye Contact: Immediately wash eyes with water for at least 15 min. Consult physician if irritation or other symptoms occur.
Skin Contact: For serious burns, get medical attention. In case of skin contact with hot polymer, immediately immerse in or flush with clean, cold water.
Inhalation: Remove to fresh air. Consult physician if irritation of respiratory passages occurs.
Ingestion: Consult physician.
Notes to Physician: No known delayed effects following single exposure.
Other Instructions: None

7. EXPOSURE CONTROLS, PERSONAL PROTECTION RECOMMENDATIONS

Eye Protection: Safety glasses
Skin Protection: Gloves required when handling hot material
Respiratory Protection: None required in normal use of product. NIOSH approved dust mask recommended if dusty conditions exist.
Engineering Control: Ventilation Requirements -
General
 General ventilation should be sufficient. However, if operating conditions create high airborne concentrations of this material, special ventilation may be needed. If thermal processing results in irritating fumes, special ventilation may be needed. If handling results in dust generation, special ventilation may be needed to ensure that dust exposure does not exceed the OSHA PEL for nuisance dust.
Required Work/Hygiene Procedure: Minimize contact with skin. Do not eat, drink, or smoke in work area. Wash hands thoroughly after handling, especially before eating, drinking, smoking, chewing, or using restroom facility. Dusted clothing and shoes should be thoroughly cleaned before reuse.

Exposure Guidelines:

No.	Components	OSHA-PEL	ACGIH-TLV
P	Polypropylene Copolymer	None Nuisance dust: 10mg/M ³ TWA	None

8. ACCIDENTAL RELEASE CONTROL MEASURES

Response to Spills: Sweep up and recycle if feasible

9. HANDLING AND STORAGE

Handling: Maintain good housekeeping. Spilled materials may create a slipping hazard. Remove dust from settling areas to prevent any secondary potential dust explosion or fire hazards. Electrostatic charge may build up during handling. Grounding of equipment is recommended.

Storage: Store in a dry place and away from direct sunlight.

Container Use: Keep containers closed.

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Strong oxidizers

Hazardous Decomposition: Carbon dioxide, carbon monoxide

Decomposition:

Hazardous Polymerization: Will not occur

11. DISPOSAL CONSIDERATIONS

Disposal Method: It must be disposed of in accordance with Federal, State and local environmental control regulations.

Recycle/Reclaim: Recycling or reclamation of Polypropylene Copolymer should be encouraged where possible.

12. TRANSPORT INFORMATION

DOT Shipping Name: Not listed

DOT Label: Not regulated

DOT Hazard Class: Not applicable

UN/NA Number: Not applicable

Hazard Label(s): Not applicable

Hazard Placard(s): Not applicable

Packing Group: Not applicable

Bulk Packaging: Not applicable

RQ: Not applicable

Emergency Response Guide (ERG) No.: Not applicable

13. TOXICOLOGICAL INFORMATION

The information provided below can be subject to misinterpretation. Therefore, it is essential the following information be interpreted by individuals trained in its evaluation.

Chemical	Toxicity Data
Polypropylene	No toxicology data available. Polypropylene Copolymer is not considered hazardous materials under the OSHA Hazard Communication Standard

14. ECOLOGICAL INFORMATION

No data is available on the adverse effects of this product on the environment. Neither COD or BOD data are available. Fish or birds may eat pellets which may obstruct their digestive tracts.

15. REGULATORY INFORMATION

FEDERAL REGULATORY INFORMATION

Polypropylene Copolymer

OSHA Status: None
EPA Clean Air Act Status: None
EPA Clean Water Act Status: None
TSCA Status: TSCA Inventory (40 CFR710) listing
CERCLA RQ: None

SARA Title III

Polypropylene Copolymer

Section 302*

None

Section 313**

None

Section 311/312***

None

*Reportable quantity of extremely hazardous substance, Sec. 302

*Threshold planning quantity, extremely hazardous substance, Sec. 302

**Toxic chemical, Sec. 313

**Category as required by Sec 313 (40CFR372.65C). Must be used on Toxic Release Inventory form.

***Hazard category for SARA Sec.311/312 reporting H1=acute health hazard, H2=chronic health hazard, P3=fire hazard,

P4=sudden release of pressure hazard, P5=reactive hazard

RCRA Status: If disposed of in its purchased form, this would not be a RCRA hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40CFR261.20-24).

OTHER REGULATORY INFORMATION

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, you should contact the appropriate agency in your state.

<u>State</u>	<u>Chemical</u>	<u>Regulation</u>
None	Polyethylene Copolymer	None

Product Name: Formolene PP Copolymer

International

None

16. OTHER INFORMATION

NFPA

Fire - 1

Health - 0

Reactivity - 0

Specific Hazard - None

HMIS

Health - 0

Flammability - 1

Reactivity - 0

Personal Protection Index - E

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