

Formosa Plastics Corporation

Material Safety Data Sheet

1. IDENTIFICATION

Product Name: Yungsox Copolymer PP
Product Number: Yungsox
3003,3003H,3005,3005H,3010,3015,3015W,3040C,3040,3064,3064H,
,3080,3084, 3084H,3155,3204,3354,3554,3504,4084,4204,4304,
8084,5003,5018,5018T,5020,5050,5050M,5050R,5060,5060T,5070,
5071,5090T,5150T,5200T,5200N,5200U,5250T,5350T,5400T
Manufacturer: Name: Formosa Plastics Corporation,
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Preparation Date: 01/01/2013

2. HAZARD IDENTIFICATION

Emergency Overview: This product has been evaluated and does not require any hazard warning on the label under established regulatory criteria. No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing. Handling and/or processing of this material may generate dust which may cause mechanical irritation of the eyes, skin, nose and throat. High dust concentrations have a potential for combustion or explosion.
Primary Route(s) of Exposure: Inhalation, Ingestion ,Eye, Skin Contact
Potential Health Effects
Eye Contact: No significant irritation expected other than possible mechanical irritation. Heated material can cause thermal burns. When heated to decomposition, it emits acrid smoke and irritating fumes.
Skin Contact: No significant irritation expected other than possible mechanical irritation. Heated material can cause thermal burns.
Inhalation: Exposure to airborne concentrations well above the recommended exposure limits may cause irritation of the nose, throat, and lungs. If heated to more than 300°C, the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath.
Ingestion: No significant health hazards identified.

3. COMPOSITION

Chemical Name: Polypropylene Copolymer
Synonyms: PP Copolymer, Copolymer of polypropylene, Block Copolymer, Random Copolymer
Formula: $(C_3H_6)_x-(C_2H_2)_y$
CAS No.: 9010-79-1
GHS Classification: Not hazardous according to GHS criteria.
Percentage (%): 100

4. 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

Ingestion:	passages occurs. If ingested, dilute swallowed material by drinking water. Never give anything by mouth to an unconscious person. Get medical attention if irritation or other symptoms develop.
Other Instructions:	Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash Point:	Not applicable
Extinguishing Media:	Dry chemical, carbon dioxide, foam, water spray.
Special Fire Fighting Procedure:	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.
Hazardous Combustion Products	When forced to burn, the major gaseous products of the combustion of plastic resin are carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Restrict access to keep out unauthorized or unprotected personnel. Wear appropriate personal protective equipment during all clean-up activities. Avoid inhalation and direct contact.
Environmental Precautions:	Keep spilled material away from heat, sparks and open flames. Ensure adequate ventilation.
Methods for Clean-Up:	Collect spilled material using a method that minimizes dust generation (e.g., wet methods, HEPA vacuum). Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

7. 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. Electrostatics charge may build up during handling. Grounding of equipment is recommended.
Storage:	Keep dry. Store away from extreme heat and away from strong oxidizing agent.
Container Use:	Keep containers closed to prevent contamination.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering Control:	If user operations generate dust or fumes, ventilate area to prevent accumulation.
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.
Hygiene Procedures:	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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Pellets
Color:	Translucent white
Odor:	Odorless to faint, mild hydrocarbon odor
Boiling Point:	Not available
Melting Point:	120 - 170°C
Auto-ignition temperature	Not applicable
Solubility in Water:	Insoluble
Specific Gravity:	0.90 g/cm ³ (water = 1) Bulk Density: 400 - 600 kg/ m ³

Vapor Density:	Not applicable (air = 1)
Evaporation Rate:	Not applicable (Butyl Acetate = 1)
Vapor Pressure:	Not applicable
PH Value:	Not applicable
% Volatile:	Not applicable

10. STABILITY AND REACTIVITY

Stability:	Stable
Condition to Avoid:	Strong oxidizers and excessive heat
Hazardous	Burning can produce carbon monoxide and/or carbon dioxide and other organic vapors.
Decomposition Products :	
Hazardous	Under normal conditions of storage and use, hazardous
Polymerization:	polymerization will not occur.

11. 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 is not considered hazardous materials under the OSHA Hazard Communication Standard

12. 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.

13. DISPOSAL INFORMATION

Disposal Method:	It must be disposed of in accordance with Federal, State and local environmental control regulations.
Recycle/Reclaim:	Recycling or reclamation of Polypropylene should be encouraged where possible.

14. TRANSPORT INFORMATION

This product is not regulated as a hazardous material/dangerous good for all forms of transportation.

Proper Shipping Name:	Not listed
Hazard Label:	Not applicable
Hazard Class:	Not regulated
UN/NA Number:	Not applicable
Hazard Placard(s):	Not applicable
Packing Group:	Not applicable
Reportable Quantity:	Not applicable
Emergency Response	Not applicable
Guide (ERG) No.:	

15. REGULATORY INFORMATION

U.N. GHS Classification & Labeling Information:

Classification:	Not hazardous according to GHS criteria.
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NFPA 704 Information:

Health Rating:	0
Flammability Rating:	1
Reactivity Rating:	0
Other Hazards:	Not applicable

U.S. Federal Regulatory Information:

EPA Clean Air Act:	Not listed
EPA Clean Water Act:	Not listed
TSCA:	The ingredients of this product are listed on TSCA inventory (40 CFR 710).

RCRA: This product as supplied is not considered a RCRA hazardous waste.
CERCLA RQ: Not listed
European Union Regulatory Information:
Classification: Not hazardous according to EU criteria.
Canadian Regulatory Information:
Classification: Not hazardous according to WHMIS criteria.
Domestic Substances List (DSL): Listed

16. OTHER INFORMATION

Disclaimer of Liability: This material is not intended for use in products which have prolonged contact with mucous membranes; devices with direct or indirect contact with the blood pathway; devices which contact bone, tissue, tissue fluid, or blood for prolonged periods or devices intended for implantation within the body. No biomedical application is intended unless the finished product has been fully tested in accordance with Food and Drug Administration and/or other applicable safety testing requirements. Because of the wide range of potential application, Formosa Plastics Co., is not able to recommend this material as safe and effective for any above mentioned use and assumes no liability for such use.

The information on this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself.

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