

# Formosa Plastics Corporation

## Material Safety Data Sheet

### 1. IDENTIFICATION

**Product Name:** Yungsox PP  
**Product Number:** Yungsox PP homopolymer, All Grade  
**Manufacturer:** Name: Formosa Plastics Corporation,  
Polypropylene Division  
Address: 1, Shin-hwa 1<sup>ST</sup> Road, Lin-yuan Hsiang,  
Kaohsiung County, Taiwan, R.O.C.  
Phone: (07)6419911  
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**Preparation Date:** 01/01/2008

### 2. COMPOSITION

**Chemical Name:** Polypropylene, Homopolymer  
**Chemical Family:** Polyolefin  
**Synonyms:** PP, 1-Propene, Homopolymer of polypropylene  
**Formula:**  $(C_3H_6)_n$   
**CAS No.:** 9003-07-0  
**Percentage (%):** 100

### 3. HAZARD IDENTIFICATION

**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. Polypropylene is generally accepted as being biologically inert. No specific antidotal treatment, symptomatic support required.

### 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,

**Inhalation:** cold water.  
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

## 5. FIRE FIGHTING MEASURES

**Flash Point:** Not applicable  
**Auto-Ignition:** ~1050°F(570°C) Estimate  
**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:** 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.

## 6. ACCIDENTAL RELEASE MEASURES

**Response to Spills:** Pick up and retain for recycle or disposal. Do not flush spilled material to sewer or the environment.

## 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

<b>Physical Form:</b>	Pellets
<b>Color:</b>	Translucent
<b>Odor:</b>	Odorless to faint, mild hydrocarbon odor
<b>Molecular Weight:</b>	Not applicable
<b>Boiling Point:</b>	Not available
<b>Melting Point:</b>	248 - 338°F (120 - 170°C)
<b>Freezing Point:</b>	Not applicable
<b>Solubility in Water:</b>	Insoluble
<b>Specific Gravity:</b>	0.90 g/cm <sup>3</sup> (water = 1)Bulk Density: 400 - 600 kg/ m <sup>3</sup>
<b>Vapor Density:</b>	Not applicable (air = 1)
<b>Evaporation Rate:</b>	Not applicable (Butyl Acetate = 1)
<b>Vapor Pressure:</b>	Not applicable
<b>PH Value:</b>	Not applicable
<b>% Volatile:</b>	Not applicable

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Condition to Avoid:</b>	Strong oxidizers and excessive heat
<b>Incompatibility:</b>	Chlorine, fuming nitric acid and strong oxidizing agents.
<b>Hazardous Products of Decomposition:</b>	Not expected to decompose under normal conditions.
<b>Hazardous Polymerization:</b>	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.

<b>Chemical</b>	<b>Toxicity Data</b>
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

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

## 14. TRANSPORT INFORMATION

<b>DOT Shipping Name:</b>	Not listed
<b>DOT Label:</b>	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  
**Reportable Quantity:** Not applicable  
**Emergency Response Guide (ERG) No.:** Not applicable

#### 15. REGULATORY INFORMATION

**Apply Regulation:** The data are based on our present state of knowledge but do not constitute a guarantee of the properties. The recipient of our product shall be solely responsible for observing exiting legislation and regulation.

#### 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.

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