FORMOSA CHEMICALS & FIBRE CORPORATION
201, TUNG HWA N. ROAD, TEIPEI, TAIWAN R.O.C.

MATERIAL SAFETY DATA SHEET

Product name:	PP Resin
Grade Name:	TAIRIPRO PP (All grade except compound)
Freight classification:	Plastics, Milky off-white solid
Used for:	Injection, Extrusion, Blow, Yarn and Filament
Dated Prepared:	June 10, 1996
Dated Revised:	October 11, 2002

1. COMPANY IDENTIFICATION

Manufacturer (Company)

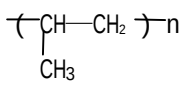
Name:	FORMOSA CHEMICALS & FIBRE CORPORATION.
Address:	201, TUNG HWA N.R., TAIPEI, TAIWAN, R.O.C.
Department:	Plastics Division
Telephone Number:	+886-2-2712-2211 Ext.5493
Facsimile Number:	+886-2-2718-0358
Emergency Phone:	+886-080-211506

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name: Polypropylene
Ingredients and Composition:

	CAS NO.	Nominal(%)
Propylene Homopolymer	9003-07-0	99.0<
or Propylene-ethylene block copolymer	106565-43-9	
or Propylene-ethylene random copolymer	09010-79-1	
Proprietary ingredients		1.0≧

Chemical Formula (Constitutional or Structural):



3. HEATLTH HAZARDS INFORMATION

Inhalation:
Unlikely to be hazardous by inhalation unless heated. Combustion products are irritant . Remove patient from exposure, keep at rest. Dust may case irritation to upper respiratory tract.

Eye contact:
Solid or dust may cause irritation or corneal injury due to mechanical action.

Skin contact:
Molten material can severe burns. Do not try to peel molten polymer from the skin. Cool rapidly with water.

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Ingestion:
Minimal toxicity.

4. FIRST AID AND MEASURES

Eye contact:
Remove contact lenses at once. Immediately flush eyes with large quantities of water for at least 15 minutes. Get medical attention.
Skin contact:
If contact with molten product occurs, treat as for thermal burn. Get medical attention promptly.
Inhalation:
Not likely to be inhaled due to physical form. For processing fume inhalation irritation, leave contaminated area and breathe fresh air. If coughing, difficult breathing or any other symptoms develop, get medical attention immediately at once.
Ingestion:
Not a likely route of exposure. If person is conscious, give large amounts of water to drink. Induce vomiting. Keep person warm and quiet. Get medical attention.

5. FIRE AND EXPLOSION HAZARD DATA

Fire fighting:
Water spray is the preferred extinguishing medium. Use Water spray to cool fire exposed surfaces, protect personnel, and extinguish the fire. Respiratory and protections are required for fire fighting personnel.
Extinguishing media:
Water spray and form. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition.
Hazardous combustion products:
Oxygen-lean conditions may produce carbon monoxide and irritating smoke.

Flash point	: Not application
Lower flammable limit	: Not established
Upper flammable limit	: Not established
Auto ignition temperature	: 440℃

6. ACCIDENTAL RELEASE MEASURES

General:
Sweep or gather up product and place in proper container for disposal or recovery. Obstruct exit to sewers and waterways, because fish may eat pellets and obstruct their digestive tracts.

7. HANDLING AND STORAGE

Handing:
Prevent contact with skin and eyes. Use good industrial hygiene practices. Provide adequate ventilation. Secondary operations such as grinding or sawing may produce a dust explosion hazard. Employ venting and explosion relief provisions in accordance with accepted engineering practices.
Storage:

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Store in a dry place away from moisture, excessive heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits:
OSHA regulation 29 CFR 1910. 1000:
5 mg/m3 (respiable dust), and 15 mg/m3 (total dust) based on OSHA PEL for nuisance dust.
ACGIH TLV:
A TWA of 10 mg/m3 (total dust) for nuisance dust.
Ventilation:
A continuous supply of flesh air to the workplace together with removal of processing fumes through exhaust systems is recommended. Ventilation requirements must be locally determined to limit exposure to materials at their point of use.
Personal protection:
Skin: No precaution other than clean body-covering clothing should be needed.
Eye: Safety glasses should be sufficient for most operations; however, for dusty operations or when handling solutions of the material, wear chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Solid
Appearance	: Milky off-white
Odor	: Odorless
Boiling point	: Not applicable
Melting point	: 125℃
Vapor pressure (mmHg)	: Negligible
Vapor density (air=1)	: Not applicable
Specific gravity (water=1)	: 0.90
PH	: Not applicable
Water solubility	: Insoluble
Volatiles	: Negligible

10. STABILITY AND REACTIVITY

Stability:
Stable under recommended conditions of storage, handling.
Reactivity:
Not reactive under recommended conditions of storage, handling, processing and use.
Conditions & material to avoid:
Attacked by strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD50: Not available
The components of this product are not hazardous under OSHA hazard communication (29 CFR 1910. 1200).

12. ECOLOGICAL INFORMATION

Not expected to present any significant ecological problems.

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13. DISPOSAL CONSIDERATIONS

Waste disposal:
Efforts to recycle material should be made. If unable to use recycle, material should be buried in approved landfill or incinerated in accordance all applicable with federal, state and local regulations.

14. TRANSPORT INFORMATION

Proper Shipping name	:	Not determined
Dot hazard class	:	Not regulated
Identification number	:	Not determined
TDGA	:	Not determined

15. REGULATORY INFORMATION

This product complies with the Chemical Substance Inventory requirements of the US EPA Toxic Substance Control Act (TSCA).

16. OTHERS

The information contained herein is based on the data available to us and is believed to be correct. However, FORMOSA CHEMICALS & FIBRE CORPORATION makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. FORMOSA CHEMICALS & FIBRE CORPORATION assumes no responsibility for injury from the use to the product described herein.

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