

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product name :COSMOTHENE LDPE
Grades :F410-1
Chemical name :Low Density Polyethylene
Chemical formula *****[--CH2 - CH2--]*****

2. COMPANY IDENTIFICATION

Manufacturers name THE POLYOLEFIN COMPANY (SINGAPORE) PTE LTD

3. INFORMATION OF INGREDIENTS

<u>COMPONENT NAME</u>	<u>% BY WEIGHT</u>	<u>CAS REG NO</u>
Polyethylene	@ > 99%	9002-88-4
Additives	@ < 1%	Various

4. HAZARD IDENTIFICATION

Corrosive material :NO
Explosive material :NO
Flammable material :Burns easily under fire
Reactive material :NO
Toxic material :NO

5. FIRST-AID MEASURES

Eye :If irritation develops, seek medical attention.
Skin :Pellet is inert and harmless. If irritation Develops, seek medical attention. If in Contact with hot molten resin, do not peel Off skin. Flush with plenty of water (min 15 Min) to cool down the thermal burned skin quickly and then immediately seek medical attention.

Inhalation :If exposed to the thermal decomposition gas, Remove the person from exposure to a fresh air environment. If difficulty in breathing occurs, administer artificial respiration, followed by oxygen and immediate medical attention.

Ingestion :If illness or adverse symptoms develop, seek immediate medical attention.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken :Spilled pellet is a slipping hazard. Sweep up And discard.
Keep out of water sources and sewers.
In case of molten resin spillage, cool it down With water and then dispose accordingly.

Personal protective Equipment required :When handling molten resin, use thermal resistant gloves.

7. FIRE FIGHTING MEASURES

Suitable fire fighting agents:Water spray, foam, carbon dioxide, dry Chemicals.

Precautions to observe :Dense smoke and hazardous gasses (carbon dioxide and carbon monoxide) will be emitted when it is burned without sufficient oxygen. Melted resin on the floor will spread and catch fire easily.

Protective clothing and Breathing apparatus :Wear appropriate safety equipment for fire conditions (including positive pressure self Contained apparatus [SCBA] and protective fire-fighting garments.)

8. HANDLING AND STORAGE

Handling :Wear appropriate personal protection equipment. Material is in solid form and is non-hazardous. No risk to the health of operators when handling at room temperature. During processing avoid inhalation of the fumes and vapors.

Storage condition :store away from heat or flames. Have good housekeeping to prevent dust accumulation. Avoid contact with hot aromatic, chlorinated solvents and other hot strong solvents.

Ventilation :Workplace must be equipped with a good ventilation system and fume collector (if necessary).

9. PERSONAL PROTECTION EQUIPMENT

Eye Protection	:Use safety glasses
Respiratory protection	:Use dust mask.
Skin protection	:Normal clothing. When handling hot molten resin, Wear thermal resistant hand gloves.

10. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:Solis, opaque /translucent pellet.
Odor	:Odorless
Boiling points	:Not applicable
Melting points/ range	:106- 112 C
Vapor pressure	:Not applicable
Vapor density	:Not applicable
Specific gravity (H ² O=1)	:0.91-112 C
Solubility in water	:Not soluble
Solubility in other liquids	:Soluble in hot aromatic, chlorinated solvents
Viscosity	:Not applicable
PH	:Not applicable
Flash point	:Not applicable
Flammability limits	:Not applicable
Auto ignition temperature	:Not applicable

11. STABILITY AND REACTIVITY

Stability	:Stable
Thermal decomposition temperature	:>300 C
Incompatible materials	:Hot aromatic, chlorinated solvents and hot strong oxidants.
Conditions to avoid	:Not applicable
Hazardous decomposition product	:Carbon monoxide and carbon dioxide may generate.
Hazardous polymerization	:Will not occur

12. OVER EXPOSURE AND TOXICOLOGICAL INFORMATION

Route of entry and effect of over exposure :Inhalation: Vapors produced are unlikely at room temperature (with reference to the physical properties). Dust may produce irritation to the mucous membrane of the nose, throat and the upper respiratory tract.

Acute effects: :No known applicable effects

Chronic effects :No known applicable effects

Permissible exposure effects :No known applicable effects

13. ECOLOGICAL INFORMATION

Biodegradability :No known applicable information

Aquatic toxicity :No known applicable information

Mobility :No known applicable information

Bioaccumulative potential :No known applicable information

14. DISPOSAL CONSIDERATION

Disposal method :Recover for refuse if possible. It may be buried on an Authorized landfill site or be incinerated. The disposal methods must comply with local authority legislation.

15. PACKAGING AND TRANSPORT INFORMATION

Type of packaging :Standard 25 Kg Resin Bag or 650 Kg Flexcon Bag

Special transport required :Not applicable

16. REGULATORY INFORMATION

- A. Under FDA standard classification and Class Labels for Hazardous Substances, this product is NOT a "Hazardous Substance".
- B. OSHA HAZARD COMMUNICATION STANDARD. This product is NOT a "Hazardous Chemical as defined by standard 29 CFR 1910, 1200.
- C. This material has quality such as products made from polyethylene will, as long as it is used unmodified and processed according to the standard manufacturing practice in the industries, comply with the US FDA Regulation 21 CFR 177, 1520 (C) 2.1.

Note: Direct food contact is subjected to the extraction provisions of the regulation on the finished food contact article.