MATERIAL SAFETY DATA SHEET

COSMO FILMS LIMITED

Issued on – January 02, 2005
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1. PRODUCT MANUFACTURER / IDENTIFICATION

Product Identification	COSMOPHANE OPP PCT-2 Matte Films
Chemical Family	Polypropylene
Product Description	Bi-axially Oriented Polypropylene Film (BOPP)
Recommended Use	For Printing Pouching, Overwrapping, Lamination and Labeling application.
Manufacturer	**COSMO FILMS LIMITED** **B-14/9, MIDC AREA, WALUJ, AURANGABAD – 431136 (INDIA)**
Emergency Tel. No.	+91-240-2554611-14

2. COMPOSITION

Polypropylene (Up to 100 %)	CAS-No. 9003-07-0
Matte compound	Proprietary additive

3. HAZARDS IDENTIFICATION

No specific danger is associated to the normal industrial utilization of the product. However, it is to be considered that plastic films left on the ground of working areas are slippery, and that during converting of film rolls electrostatic discharges can be generated.

4. FIRST AID MEASURES

Eye	Exposure to hot molten material. In this case immediately flush eyes thoroughly with running water for 5 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing and get medical attention immediately.
Skin	If molten material contacts skin, then treat affected area with cool running water for at least 5 minutes and then seek medical attention.

5. FIRST FIGHTING MEASURES

Flash point	350 °C
Flammable Limits	NA
LEL & UEL	NA
Fire Extinguishing Media	Water spray from fogging nozzle, carbon dioxide, foam or dry chemical

Special Fire Fighting Procedure	Fire fighter should wear self-contained breathing apparatus in the positive mode with a full-face piece when there is a possibility of exposure to smoke, fumes, or hazardous decomposition products. The application of high speed water will spread the burning surface layer
Unusual Fire And Explosion Hazards	Dense smoke is emitted when burned without sufficient oxygen. Accumulation of fine particles may pose explosive hazard.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is spilled	No special precautions necessary to spills. Sweep or pick up material to prevent a slipping hazard. Wear temperature protective gloves when handling hot material. Do not allow material to enter sewers.

7. HANDLING AND STORAGE

Precaution to be taken in handling and storage	No special hazards anticipated under condition normally encountered in storage and handling. Use household practices to prevent accumulations of dust concentrations at a minimum. Ground all equipments and containers to prevent a static charge buildup.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Protective Gloves	Recommended to avoid cuts, skin abrasions or thermal burns.
Ventilation	Local air ventilation recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapour Density (Air = 1)	NA	*Vapour Pressure (mm Hg)*	NA
Boiling Point (°C)	NA	*Auto Ignition Temperature*	> 380 °C
Melting Point (°C)	163°C (PP)	*Percent Volatile (Vol. %)*	< 0.1
Sp. Gravity	0.65 – 0.95 (H_2O = 1)	*Solubility in Water*	Insoluble
Appearance & Odour	Translucent or clear transparent, odourless	*Evaporation Rate (Butyl Acetate = 1)*	NA

10. STABILITY AND REACTIVITY

Stability	Stable at room temperature
Incompatibility (Material to avoid)	Strong oxidants at high temperature
Hazardous Decomposition product	Decomposition products may include carbon monoxide, carbon dioxide, organic acids (acetic acid) and organic vapors.
Hazardous Polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicity Ingested, Inhaled or on Skin	COSMOPHANE OPP PCT-2 Matte Films are not toxic
Irritation to Eyes & skin	NA
Ingestion	Considered physiologically inert
Inhalation	Low hazard for usual handling and use. Vapours are unlikely due to physical properties.

12. ECOLOGICAL INFORMATION

Ecological Effect	No environmental damage occurs when disposed of under orderly condition. When burning under free air-conditions only CO_2, CO and waste arise. Does not contain additive based on heavy metals like cadmium, lead, mercury or chromium.

13. DISPOSAL CONSIDERATION

Waste Disposal Method	Can be recycled or may be disposed of or incinerated in accordance with local official regulations.

14. TRANSPORT INFORMATION

Non-regulated commodity

15. REGULATORY INFORMATION

This product comply with the EU Directives 1995/45/EC and 67/548/EEC.

16. OTHER INFORMATION

Special precautions need to be taken during handling and storing although Cosmo oriented films are suitable for use during the nine months from date of production; it is advisable to rotate film stock, and to store in dry conditions at temperature 20–35 degree Celsius (°C) and humidity 50–60 % RH.

The stacking of film pallets on top of each other is not recommended. Pallets should not be climbed on but properly approached and handled. Pallet strapping is under tension and when cut will recoil exposing sharp corners. It is recommended that eye protection be worn at all times during cutting and handling of strapping.

Statements are made with latest state of our knowledge. They shall describe our product with regard to safety requirements, thus do not mean a guarantee for certain characteristics.