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## MATERIAL SAFETY DATA SHEET

### PRODUCT IDENTITY

### ORIENTED POLYPROPYLENE FILM

#### 1. CHEMICAL IDENTITY

<b>Chemical Name</b>	Polypropylene	<b>Chemical classification</b>	Polyolefin
<b>Synonyms</b>	Polypropylene	<b>UN number</b>	NA
<b>Formula</b>	(C <sub>3</sub> H <sub>6</sub> ) <sub>n</sub>	<b>Hazchem code ( EAC)</b>	NA
<b>REGULATED IDENTIFICATION</b>		<b>Not classified as Dangerous for Transport / Supply / Use</b>	
<b>Hazardous ingredients</b>	No classifiable Hazardous Ingredients	<b>CAS No.</b>	9003 – 07 – 0
<b>Hazard Identification</b>	No harmful effect under normal conditions of handling and use		

#### 2. PHYSICAL AND CHEMICAL DATA

<b>Physical state</b>	Film
<b>Appearance</b>	Transparent, Translucent, Opaque, Pearl
<b>Odour</b>	Odourless
<b>Solubility in water ( at 30 °C)</b>	Insoluble
<b>Specific gravity ( at 20 °C ) (water =1)</b>	0.65 – 0.95
<b>Softening Temperature (°C)</b>	160 - 171

#### 3. FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (°C)</b>	Not Pertinent	<b>Flammability LFL UFL % v</b>	20 - 30 g/m <sup>3</sup> --
<b>Explosion sensitivity to static electricity</b>	No	<b>Corrosive Material</b>	No
<b>Oxidiser</b>	No	<b>Pyrophoric Material</b>	No
<b>Autoignition Temperature (°C)</b>	460	<b>Explosive Material</b>	No
<b>Combustible Material</b>	Combustible but not readily ignited	<b>Flammable Material</b>	No
<b>Combustion Products</b>	At complete combustion the product will form include Oxides of Carbon and Water, During incomplete combustion a range of Hydrocarbon Carbon gases may generate along with Carbon Monoxide, Carbon Dioxide and Water. The burning of the material is accompanied by melting and dripping which may cause the fire to spread.		

#### 4. REACTIVITY DATA

<b>Chemical stability</b>	Stable
<b>Incompatibility with other Materials</b>	Chlorine, fuming acid and other strong oxidising agents.
<b>Reactivity</b>	Non Reactive in Normal Atmospheric Condition

## 5. ENVIRONMENTAL / HEALTH HAZARD DATA

<b>Effect of Exposure / Symptom</b>	1. Films are Slippery in Nature, which cause accidental slippage of steps on moving on the film. 2. In most of the processes where there is a movement of film over metal roller, Static electrical charges developed on the film, which may provide source of ignition to flammable vapours and gases or may give static shock to operator.		
<b>Permissible Exposure Limit</b>	TLV-TWA ( ACGIH) : None Suggested, STEL(ACGIH) : NA , LD 50 orl-rat / TClO ihl-hmn : NA, IDLH : NA, Odour threshold : Not pertinent		
<b>NFPA Hazard Signals</b>	<b>Health</b> 1	<b>Flammability</b> 1	<b>Reactivity</b> 0

## 6. TOXICOLOGICAL INFORMATION

<b>Inhalation</b>	Normal film dose not have any effect on inhalation, Combustion product may be irritant
<b>Skin Contact</b>	No evidence of irritant effect from normal handling and use. Molten polymer due to combustion will adhere to the skin causing deep thermal burns.
<b>Eye Contact</b>	Sharp cut pieces may cause eye damage
<b>Ingestion</b>	Highly unlikely under normal use
<b>Long Term Exposure</b>	No evidence of any adverse effect from normal exposure

## 7. PREVENTIVE MEASURES

<b>Personal Protective Material</b>	Gloves, safety glasses or goggles, Non Slip Safety shoes
<b>Handling And Storage Precautions</b>	Storage : Store in well ventilated place away from heat, source of ignition and incompatible materials. Tends to accumulate static charge. Process : Use either Passive or active Static Eliminator to reduce Static Charge during processing. Scrap film generated during processing should be swept away and disposed in proper container i.e in plastic bags or in drums.

## 8. EMERGENCY AND FIRST AID MEASURES

<b>Fire ( Class of Fire : A )</b>	
<b>Fire extinguish media</b>	Foam, DCP, Carbon dioxide
<b>Special Procedures</b>	No special procedure required. Cool the exposed container with water.
<b>Unusual Hazards</b>	The product is slow combustible and generate static charge, which may cause source of ignition in presence of inflammable materials, vapour or gases.
<b>Exposure</b>	
<b>Antidotes/ Dosages</b>	Nothing specific. Treat symptomatically.
<b>Spills</b>	
<b>Steps to be taken</b>	In case of spill, sweep up
<b>Waste Disposal Method</b>	As per local rules and regulation.

## 9. DISCLAIMER

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