



# GOYEL CHEMICAL CORPORATION

## MATERIAL SAFETY DATA SHEET

PRODUCT NAME

**PE WAX**

PRODUCT TYPE

**POLYETHYLENE HOMOPOLYMER WAX**

PRODUCT GRADE

**GCC 110**

### SECTION: 1 CHEMICAL PRODUCT & COMPANY INFORMATION

Chemical Name : Polyethylene Wax (GCC-110)  
Structural Formula : (CH<sub>2</sub>-CH<sub>2</sub>)<sub>n</sub>  
Chemical Family : Polymers, Wax  
C. A. S. No. : 9002-88-4  
Company Name : GOYEL CHEMICAL CORPORATION  
Office Address : 616, City Centre, 6<sup>th</sup> Floor, 19, Synagogue Street, Kolkata - 700001(INDIA)  
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### SECTION: 2 COMPOSITION / INFORMATION ON INGREDIENTS

Material content : Polyethylene Wax (GCC-110) 99 % in flake form

COMPONENT	CAS NO.	WEIGHT %	OSHA/PEL	ACGIH/TLV
Polyethylene Wax (GCC -110)	9002-88-4	100 %	Not Established	Not Established

### SECTION: 3 HAZARDS IDENTIFICATION

Under normal condition, this product is stable and None Hazardous

#### 3.1 Classification of the substance or mixture

• **Classification according to Globally Harmonized System (GHS):**

The substance is not classified as hazardous according to GHS.

• **Classification according to Regulation (EC) No 1272/2008 (CLP):**

The substance is not classified as hazardous according to the CLP regulation.

• **Classification according to Directive 67/548/EEC or Directive 1999/45/EC:**

The substance is not classified as hazardous according to Directive 67/548/EEC or Directive 1999/45/EC.

### SECTION: 4 FIRST AID MEASURES

**Skin Contact:** - If molten material contacts the skin, immediately flush with large amount of water to cool the affected tissues and polymer. Do not attempt to peel the polymer from skin. The use of vegetable oil, mineral oil is recommended for removal of the material from the skin. Seek medical attention.

**Eye Contact:** - Dust, fines and process vapours may irritate the eyes. Immediately flush the eyes with running water at least for 15 minutes. Remove the contact lens, if worn. Seek medical attention.

**Inhalation:** - Dust and process vapours may be irritating to the nose, throat, and respiratory tract. Move to fresh air and obtain medical attention if breathing difficulty persists.

**Ingestions:** - No adverse health effects expected from ingestion.



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### SECTION: 5 FIRE FIGHTING MEASURES

Flash Point (ASTM D-92) : Approx. 230°C  
Auto ignition Temperature : Not Established  
Flammable Limits : Not Established  
Suitable Extinguishing Media : Water, Foam, Carbon dioxide, Dry chemical powder

**Possible hazard from burning / gasification / decomposition: -**

In case of fire, it can release carbon dioxide (CO<sub>2</sub>) and in absence of oxygen (O<sub>2</sub>), carbon monoxide (CO) & other hydrocarbons are generated. The toxicity of the fume is governed by the carbon monoxide (CO) content.

**Special Fire Fighting Procedures: -** Fire-fighters should wear proper protective equipment and self-contained breathing apparatus with full face-piece operated in positive pressure mode. Keep fire-exposed containers cool using water spray.

**Unusual fire & Explosion hazards: -** contact with strong oxidizers may cause fire or explosion.

**Explosion Data-sensitivity to Mechanical Impact: -** None Identified

**Explosion Data-sensitivity to Mechanical Impact: -** None Identified

### SECTION: 6 ACCIDENTAL RELEASE MEASURES

**Spill and leak procedure: -** Sweep up spilled material for use or disposal. Good housekeeping must be maintained to avoid potential slipping problem. Keep walking surface free of spilled material to avoid slipping hazard.

### SECTION: 7 HANDLING AND STORAGE

**Normal Handling: -** Avoid spillage which can cause very slippery conditions on floors. Follow standard personal hygiene and housekeeping practices applicable for an industrial environment.

**Storage Recommendations: -** To maintain product quality, store in a cool dry area away from direct heat or sunlight. Do not store near strong oxidizing agents and amines. Storage temperature should be below 60°C. Take precautionary measures to prevent the formation of static electricity.

### SECTION: 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls: -** General room ventilation is adequate for storage and ordinary handling. If heated material generates vapour or fumes, Use local exhaust at points of fume generation or other engineering controls to control exposure.

**Personal Protective Equipments:**

**Skin Protection: -** Not normally required. Use heat-protective clothing as needed for handling hot material.

**Eye Protection: -** Wear safety glasses with side shields.

**Respiratory Protection: -** To minimize the risk of over exposure to dust, vapour of fumes it is recommended that a local exhaust system is placed above the equipment, and that the working area is properly ventilated. If ventilation is inadequate, use certified respirator that protect against dust/mist.



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**Additional recommendations:** - Provide safety showers and eyewash stations in close proximity to the work area.

### SECTION: 9 PHYSICAL AND CHEMICAL PROPERTIES

#### General Information

Appearance	FLAKES SOLID
Physical State	Solid
Colour	Natural Colour
Odour Threshold (ppm)	Not Applicable or Not Available
pH	Not Applicable
Melting Point	100 – 118°C
Boiling Point	Not Applicable
Flash Point	>220 °C
Vapour Pressure (mm HG @ 25°C)	Not Established
Specific Gravity H <sub>2</sub> O=1	0.920 – 0.940 g /cc
Evaporation Rate	Not Applicable
Vapour Density (Air = 1)	Not Applicable
% Volatiles by Volume	Not Applicable
Relative density	No Data Available
Density at 23° C	0.93-0.95 g/cm <sup>3</sup>
Solubility in Water	Insoluble
Coefficient Water/Oil Distribution	Not Established
Flammability (solid, gas)	No
Upper/Lower explosion limits	Not Applicable
Auto-ignition temperature	No Data Available
Decomposed Temperature	No Data Available
Viscosity, Kinematic	Not Applicable
Viscosity, Dynamic	No Data Available
Explosive Properties	No
Oxidizing Properties	No

### SECTION: 10 STABILITY AND REACTIVITY

**Stability:** - Normally stable. Avoid exposure to open flame or temperatures exceeding recommended processing.

**Conditions to avoid:** - Keep away from heat, spark and flame. Avoid storage or contact with strong oxidizing agents.

**Material to Avoid:** - Fluorinated and oxygenated compounds (> 50% Fluorine).



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**Hazardous Decomposition Products:** - Hazardous polymerization will not occur. Thermal Decomposition Products may include carbon monoxide, carbon dioxide, selected alkenes and aldehydes including formaldehydes can be formed in negligible amount.

**Corrosivity:** - Product is not corrosive.

### SECTION: 11 TOXICOLOGICAL INFORMATION

The product not listed as a carcinogenic by OSHA, IARC and ACGIH. The ingredients are not mutagenic, teratogenic and toxins.

#### Information on toxicological effects:

• **Acute toxicity:**

LD50 oral, rat

• **Skin corrosion/irritation:**

• **Eye damage/irritation:**

• **Sensitization to the respiratory tract:**

• **Skin sensitization:**

• **Germ cell mutagenicity:**

• **Carcinogenicity:**

• **Reproductive toxicity:**

• **Additional toxicological information:**

Not determined.

Non-irritating to skin. Mechanical injury only.

Molten polymer may cause serious thermal burns.

Dust may cause eye irritation upon repetitive or prolonged exposure. Molten polymer may cause serious thermal burns. Vapors released during thermal processing may cause eye irritation experienced as mild discomfort and redness.

No effects are expected for ingestion of small amounts. May cause choking if swallowed.

No relevant data found.

No relevant data found.

No relevant data found.

No relevant data found.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### SECTION: 12 ECOLOGICAL INFORMATION

#### 12.1 Toxicity:

• **Aquatic toxicity:**

Not expected to be acutely toxic, but material in pellet form may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

#### 12.2 Persistence and degradability:

Not easily biodegradable.

#### 12.3 Bioaccumulative potential:

This material is not expected to bioaccumulate because of the relatively high molecular weight (MW greater than 1000).

#### 12.4 Mobility in soil:

This material is expected to remain in the soil and float on the water surface

#### 12.5 Results of PBT and vPvB assessment:

• **PBT:**

Not determined

• **vPvB:**

Not determined

#### 12.6 Other adverse effects:

Avoid release to the environment.



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### SECTION: 13 DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

- **Waste disposal:** Do not dump into any sewers, on the ground, or into any body of water. All disposal practices must be in compliance with official or local regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable regulations are the responsibility solely of the waste generator.
- **Packaging disposal:** Do not reuse container. Disposal must be in compliance with official or local regulations. The packaging only use for industrial purpose.
- **Waste treatment option:** Recycle if possible
- **Other disposal recommendations:** Disposal must be made according to official or local regulations.

### SECTION: 14 TRANSPORT INFORMATION

Not regulated as a dangerous goods for transportation.

### SECTION: 15 REGULATORY INFORMATION

None

### SECTION: 16 OTHER INFORMATION

This product should be sorted, handled and used in accordance with good industrial hygiene practices and in conformity with legal regulation.

This product is a raw material for industrial conversion. We recommended you to use this product under description in this document only.

#### Disclaimer:

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information. We make no warranties which extend beyond the description contained herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products. No liability can be accepted in respect of the use of our products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

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