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## **MATERIAL SAFETY DATA SHEET**

### **1. PRODUCT AND COMPANY IDENTIFICATION**

copo polypropylene: K8003

This MSDS is valid for the Item copo polypropylene: K8003

Use of the Substance/Preparation: INDUSTRIAL RAW MATERIAL FOR THE PLASTICS ITEMS  
PROCESSING

**Producer:** Hainan Refinery Co., Ltd.

**Address:** No.1, Yangpu Avenue, Yangpu Economic and Technological Development Zone,  
Danzhou City, Hainan Province

### **2. HAZARDS IDENTIFICATION**

**Emergency Overview:** Flammable solids. If the dust content of this product in the air reaches a certain range, it may cause dust explosion.

**GHS Hazard Category:** The product is not classified and is not considered to be a hazardous chemical according to the Standards for Classification and Labelling of Chemicals.

#### **EMERGENCY OVERVIEW -**

##### **CAUTION:**

**Hazard information:** Flammable solids. If the dust content of the product in the air reaches a certain range, it may cause a dust explosion. The product can accumulate static electricity, which may lead to discharge fire. Contact with hot material of this product may cause heat scald or permanent injury. Burning gives off irritating or toxic fumes (or gases).

##### **Prevention instructions:**

**Precautions:** Keep away from heat source, open flame and hot surface. No smoking. Handle lightly, keep the container or package in good condition. Closed operation should maintain ventilation, use explosion-proof electrical appliances, ventilation and lighting equipment, use non-sparking tools. Operate after receiving special instruction. Read and understand all safety precautions. Use personal protective equipment as required. Store separately from strong oxidizing agents. Pay attention to prevent the accumulation of static electricity.

**Emergency response:** In case of fire, use foam, dry powder, carbon dioxide, fog water to extinguish fire. Avoid using straight running water. Move containers as far as possible from the fire site to an open area. Spray water to keep the fire container cool until the end of the fire fighting. If skin contact occurs, remove all contaminated clothing and rinse skin and hair with running water. Eye contact, rinse with water. If dust is inhaled, leave the scene to fresh air quickly. Keep the airway open. Give oxygen if you have difficulty breathing. Respiration, cardiac arrest, immediate cardiopulmonary resuscitation. Go to hospital immediately.



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**Safe storage:** Store in a cool, ventilated warehouse. Keep away from fire and heat. Should be stored separately from strong oxidant and avoid mixed storage with other products. The storage area should be equipped with leakage emergency treatment equipment and appropriate storage materials.

**Physical and chemical hazards:** If the dust content in the air reaches a certain range, it may cause dust explosion. The product may develop electrostatic buildup which may lead to discharge fire. Contact with hot materials may cause heat scald or permanent injury.

**Health hazard:** No apparent hazard from occupational exposure. Under high temperature conditions, substances may volatilize. Vapor can cause irritation to eyes and respiratory tract. If dust forms, it may cause eye scratches or minor irritation of the respiratory tract.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION	Concentration	Concentration	CAS No.
copo polypropylene	93%	7%	9010-79-1

### 4. FIRST AID MEASURES

**First aid:**

**Eye contact:** If eyes contact with polypropylene powder, rinse immediately with running water. If pain persists or recurs, seek medical advice. Contact lenses should be removed by a professional after eye injury.

**Inhalation:** If smoke or combustion products are inhaled, leave the contaminated area. Keep victim in a lying position, warm and quiet. Before starting first aid, remove dentures, etc., to prevent obstruction of the airway. If breathing stops, give artificial respiration immediately. Ventilation with a flapper balloon mask or an effective pocket mask may be more effective. Cardiopulmonary resuscitation (CPR) may be performed if breathing and heartbeat have stopped. Go to a hospital or seek medical help.

**Intake:** Drink as much water as possible. Go to a doctor.

### 5. FIRE AND IGNITION INFORMATION

**Special danger:** If the dust content in the air reaches a certain range, it may cause dust explosion. Burning gives off irritating or toxic fumes (or gases).



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**Extinguishing method and extinguishing agent:** Use foam, dry powder, carbon dioxide, fog water to extinguish fire.

**Fire extinguishing precautions and measures:** Must wear air breathing apparatus, wear full-body fire prevention and poison protective clothing, in the upwind fire extinguishing. Move container as far as possible from the fire site to an open space. Spray water to keep the fire container cool until the end of the fire fighting.

### **6. ACCIDENTAL RELEASE MEASURES**

**Operator protective measures, protective equipment and emergency response procedures:**

Isolate the contaminated area and restrict access. Cut off the fire. Wetting to avoid dust. Particles leaking onto the ground pose a risk of slipping. Please pay attention to prevent skid. It is recommended that wearing dust mask (full cover) and wearing general working clothes.

**Environmental protection measures:** Prevent gas from diffusing through sewers, ventilation systems and enclosed Spaces.

**Reception, cleaning method and disposal materials used for leaking chemicals:** Cut off the source of leakage as much as possible. Land spills: Collect with a clean shovel in a dry, clean, covered container and transfer to a safe location. In case of large leakage, collect and recycle or transport to waste disposal site for disposal. Water spills: If there is no danger, take action to stop the spill by immediately limiting the spill area with booms, skimming it off the surface, and warning other vessels. The above leakage disposal recommendations are based on the most likely leakage condition of the material; However, a variety of natural conditions can have a strong influence on the programmes adopted, for which local experts should be consulted.

**Note:** Local regulations may dictate or limit the options to be adopted.

### **7. HANDLING AND STORAGE**

**Handling:** Avoid contact with skin and eyes. Do not inhale dust. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

**Storage:** Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Do not store together with strong oxidizing agents. Do not store together with volatile chemicals as they may be adsorbed onto product. Keep in properly labeled containers.



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### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering control:**

Provide adequate ventilation to ensure that concentrations in the air do not exceed exposure limits. Safety showers and eyewash facilities are provided. If a large amount of vapour/smoke is produced during heating treatment of the product, it is recommended to monitor thermal decomposition products or oxidation products that may occur during heating.

**Respiratory system protection:** When the concentration in the air exceeds the standard, wear a dust mask. In case of emergency rescue or evacuation, an air respirator should be worn.

**Eye Protection:** Wear protective goggles with side shields.

**Skin and body protection:** Wear anti-static work clothes.

**Hand the armor:** Wear general working protective gloves. If handling hot materials, it is recommended to wear heat-protective gloves. Long gloves are recommended if contact with forearms is possible.

**Other protection:** Smoking is strictly prohibited in the workplace.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Solid white.

**Odor:** None

**PH:** Not relevant

**Boiling Point/Range:** Not applicable

**Decomposition Temp:** 150 °C

**Water Solubility:** Insoluble

**Density:** < 1g/cm<sup>3</sup> @ 20°C

**Bulk Density:** 1g/m<sup>3</sup> (Powder)

**Specific Gravity:** Not determined

**Evaporation Rate:** Not applicable

### **10. STABILITY AND REACTIVITY**

**Stability:** Stable.

**Prohibited compounds:** Strong oxidant, aromatic hydrocarbon, halogenated hydrocarbon, etc



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**Conditions to avoid contact:** Heat source, ignition source

### 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** Based on the experimental data of chemical substances with similar chemical structures, it is inferred that the toxicity of the substance is extremely low.

**Chronic Toxicity:** Based on the experimental data of chemical substances with similar chemical structures, it is inferred that the toxicity of the substance is extremely low.

### 12. ECOLOGICAL INFORMATION ENVIRONMENTAL FATE

**Mobility:** Not expected to migrate. Insoluble.

**Bioaccumulation:** Not expected due to physicochemical properties of the substance.

**Persistence / Degradability:** Not expected to degrade Do not allow the material to be released to environment without government permission.

### 13. DISPOSAL CONSIDERATIONS

Not a hazardous waste. Consult with State/provincial and local, or national regulations to ensure proper disposal measures.

### 14. TRANSPORT INFORMATION

**United Nations Dangerous Goods Number (UN Number) :** No data available

**United Nations Transport Name:** copo polypropylene

**United Nations Risk Classification:** No data available

**Package Category:** None

**Packaging Mark:** None

**Packing method:** None.

**Marine Pollutants (Yes/No) :** No data available

**Transportation Notes:** This product is not regulated in accordance with the United Nations Recommendations on the Transport of Dangerous Goods, the International Maritime Dangerous Goods Code (IMDG) and the International Air Transport Association Dangerous Goods Code (DGR).

**Transportation precautions:** The transportation vehicle should be equipped with the corresponding variety and quantity of fire fighting equipment and leakage emergency treatment equipment. Flammable strong oxidant and other mixed transport is strictly prohibited. Insolation, rain and high temperature

should be protected during transportation. Stay away from fire, heat source, high temperature area.  
Transport should be stored in clean, dry covered cars or cabins, no nails and other sharp objects.

#### 15. REGULATORY INFORMATION

The following laws, regulations and standards provide corresponding provisions on the safe use, storage, transportation, loading and unloading, classification and marking of chemicals:

Code for Classification and Labeling of Chemicals (GB 30000.2-2013-- 30000.29-2013)

List of Hazardous Chemicals: not included.



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List of Dangerous Goods (GB 12268-2012) : not included.

#### 16. OTHER INFORMATION

**Modification instructions:** this SDS is prepared in accordance with the "Contents and Item Sequence of Technical Instructions for Chemical Safety" (GB/T16483-2008) standard;

The GHS classification of chemicals in this SDS is not included in the National Hazardous Chemicals Classification Information Table (2015 Edition)

#### **Description of abbreviations:**

**MAC:** The concentration of toxic chemicals that should not be exceeded in the workplace, in a single working day, at any time.

**PC-TWA:** Refers to the average allowable exposure concentration of 8h working day and 40h working week stipulated in terms of time.

**PC-STEL:** The concentration of exposure allowed for a short period of time (15min) under PC-TWA compliance.

**TLV-C:** Limits not to be exceeded even for an instant. It is specifically prescribed for certain substances such as irritating gases or substances with acute effects.

**TLV-TWA:** Refers to the time-weighted average concentration of working 8 hours per day or 40 hours per week, at which repeated exposure during working life time will not cause adverse effects on almost all workers.

**TLV-STEL:** The maximum concentration allowed for continuous exposure of workers for 15 minutes under the condition of ensuring compliance with TLV-TWA. This concentration should not be more than 4 times per working day, and the interval between two exposures should be at least 60 minutes. It is a supplement to TLV-TWA.

**IARC:** The International Institute for Research on Cancer.

**RTECS:** The Chemical Toxicity Database of the National Institute of Occupational Safety and Health.

**HSDB:** Hazardous Substances Database of the United States National Library of Medicine.

**ACGIH:** The American Conference of Governmental Industrial Hygienists.