



中国石化上海石油化工股份有限公司
SINOPEC SHANGHAI PETROCHEMICAL COMPANY LIMITED



Sinopec Shanghai Petrochemical Company Limited

Plastics Division

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PRODUCT AND IDENTIFICATION

Product Name: 三人牌® M800E polypropylene

Manufacturer: Sinopec Shanghai Petrochemical Company Limited Plastics Division

COMPOSITION/INFORMATION ON INGREDIENTS

Polypropylene CAS# 9003-07-1 >99.7%

Mouthful additives for process and long term stabilization, no including hazard contents

HAZARDS SUMMARIZING

Hazard Type: Based on National Standards of China, this product is not considered to a chemical hazard.

Hazard Routes: Inhalation, ingestion.

Health Hazards: Not harmful to human body as per GB9693-1988

Environmental Hazards: Not easily to be degraded, dissolved or chemical reacted by nature, but can be degraded in sunlight. Environmental pollution may be possible especially to soil.

Fire and Explosion Hazards: The product can be burned but it doesn't have any danger of fire and explosion under ambient temperature and pressure. Contact with strong oxidants may cause fire and explosion. The self-ignition point exceeds 390°C.

FIRST AID MEASSURES:

Skin Contact: Essentially nonirritating to skin. Not likely to result in injuring body because there is no harmful amount in the material. Wash off in soap water, running water or shower.

Eye Contact: Solid or dust may cause irritation or corneal injury due to mechanical action. Flush eyes with plenty of water over 20 min. Antixenic feeling occurs strongly, consult a physician.

Inhalation: Remove to fresh air if effects occur. Consult a physician.

Ingestion: No acute effects anticipated by this way, but take in harmful amount by mistake, consult a physician.

FIRE FIGHTING MEASURES

Hazard traits: To be combustible at high temperature, but not to be self-ignition under ambient temperature and pressure.

Hazardous Combustion Products: Under fire conditions the polymer decomposes. The smoke may contain some unidentified toxic and/or irritating compounds. Hazardous combustion products may include, which are not limited, carbon monoxide and carbon dioxide.

Fire Fighting Measures and Fire Extinguishing Agent: No special requirements.

Fire Fighting Precautions and Measures: No special requirements.

ACCIDENTAL RELEASE MEASURES

Land Spill: Clean up and collect it in dry, clean containers.

Water Spill: Sweep up and collect it in clean containers. Inform local pollution control authorities and potential polluted water downstream users if it and/or polluted fluid enters waterway.

HANDLING AND STORAGE

Handling Notes: Local exhaust ventilation may be necessary for handling and the employees should avoid smog inhalation. Heat resistance gloves and work clothes are recommended. No smoking. Avoid contacting strong oxidants directly. Move and transportation, pay attention to avoiding package damage. Equip with fire fighting and accidental release handling equipments. Keep from environmental hazards, the empty package bags should be collected and handled.

Storage Notes: Store in a cool, dry and ventilation place. Away from fire, heat and strong oxidants. Keep packing hermetically sealed.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Good ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operation places where smog occurs.

Respiratory Protection: For most conditions, no respiratory protection should be taken. However, if handling at dusty places, use gauze masks.

Eye protection: For most conditions, no eye protection should be taken. However, if handling at dusty places, use goggles.

Body protection: Normally work clothing should be needed. When product is heated processing, adequate ventilation and/or engineering controls are required, where molten product is liable or likely to come into contact with the person, the following equipments are necessary:

- 1) Full face shield
- 2) Heat resistance gloves (long gauntlets)
- 3) Cotton combination overalls with close fit at neck and wrists
- 4) Leather safety shoes or rubber boots (trousers worn outside)
- 5) Goggles
- 6) Safety helmet

Hand protection: Gloves

PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odour: White, odourless, plastic pellet.

Melting Point: 155-165°C.

Density: About 0.905(g/cm³)

Self-ignition point: >390°C

Solubility: Insoluble in water, propanone, alcohol

Recommended usage: mostly transparent package and small size transparent products for food, beverage, etc use

Polymer type: random copolymer

STABILITY AND REACTIVITY

Stability: Stable in nature

Materials to Avoid: Strong acid, chlorine and other strong oxidants, potassium permanganate, isopropyl oil

Conditions to Avoid: Fire and strong sunlight.

Hazardous Decomposition Products: Decomposition products depend on temperature, other materials present and air supply. During thermal processing this polymer can degrade to produce trace hydrocarbons, acetaldehyde in limited quantities. Complete combustion results in carbon dioxide and water.

TOXICOLOGICAL INFORMATION

Acute toxicity: No

Irritation test: Nonirritating to skin or eyes

Mutagenicity: No

Aberration: No

ECOLOGICAL INFORMATION

Ecological Hazards: No bioaccumulation and acute toxic condition are expected..

Biodegradation: In the terrestrial environment the material is expected to remain in the soil. In the aquatic environment it is expected to float.

Environmental Degradability: Degradation occurs under oxygen, ultraviolet and high temperature.

DISPOSAL CONSIDERATIONS

Disposal type: Normal solid disposal

Disposal Method: It is better to reuse this product. The entire disposal must come up to the local and nation standard criterion, which can be set on fire and/or buried.

TRANSPORT INFORMATION

UN code: No.

Package mark: Normal chemical industry commodity

Package type: Standard packaging. Other type package can be available as customer asked.

Transport note: Transport under ambient temperature, avoid rain or exposure to strong sunlight.

Avoid transporting together with dust, sand, metal and inflammable material.

OTHER INFORMATION

Specification Code: SPC-SLB-PP-M048

Issue Date: Nov.1, 2005

Note: Based on our present comprehension to the product, the above information is correct. However, it can only regard as instruction purpose. It will be updated correspondingly when new information is obtained.