

Formosa Plastics Industrial (Ningbo) Co., Ltd., Polypropylene Plant

Safety Data Sheet for Chemicals

Product Name: Polypropylene Copolymer

Prepared in accordance with GB/T 16483 and GB/T 17519

Revision Date: August 3, 2022

SDS Number: 2021-9010-79-1

Original preparation date: November 18, 2021

Version: 2.0

Part 1: Chemicals and Enterprise Labeling

Chinese name of the chemical: Polypropylene copolymer

English names of the chemicals: Polypropylene Copolymer, Block Copolymer, Random Copolymer, TPO

Product Name: Yongjia Enox (YUNGSOX)

Applicable grades: 3003, 3003H, 3005, 3009, 3015, 3080, 3080S, 3090, 3084, 3084H,

3204, 3500, 3854, 4084, 4204, 4304, 7200, 5003, 5003H, 5050, 5050M, 5061, 5062, 5070, 5070

M, 5012XT, 5090R, 5090T, 5112, 5250T, 5200XT, 5450XT, 5600XT, 5650HT

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Product Recommendations and Restricted Uses: Primarily used in production processes such as injection molding, melt-blown spinning, and extrusion of films, sheets, and tubes.

Part 2: Hazard Overview

GHS Hazard Class: In accordance with the regulatory guidelines (refer to Part 15), this product is not classified as a hazardous substance.

Physical and chemical hazards: If the dust concentration in the air reaches a certain level, it may trigger a dust explosion.

This product may accumulate static electricity, which could lead to electrical discharge and ignition.

Health hazards: No significant hazards are observed upon contact of solid particles at room temperature.

Under high-temperature conditions, substances may volatilize, and the resulting vapors can cause irritation to the eyes and respiratory tract.

If dust particles are formed, they may cause mild irritation to the respiratory tract.

Environmental hazards: None

Part 3: Ingredients/Composition Information

Component	Content	CAS NO.
Polypropylene	100%	9010-79-1

Part 4: First Aid Measures

Inhalation: If you have inhaled dust or combustion products, leave the contaminated area and move to an area with fresh air.

Skin contact: In case of contact with this product while it is in a molten state, immediately rinse thoroughly with plenty of cold water.

Eye contact: Immediately rinse with flowing water.

Oral intake: If ingested, it is indigestible and non-toxic; however, if large amounts are ingested, seek assistance from a physician or a medical facility.

Part 5: Fire Protection Measures

Extinguishing agents: Water mist, foam, dry powder, or carbon dioxide extinguishers may be used.

Special hazards: Combustion may release irritating gases or smoke.

Safety precautions and protective measures for fire extinguishing:

Firefighters must wear gas masks and fire-resistant clothing, and extinguish the fire from the upwind direction.

Part 6: Leak Emergency Response

Protective measures, protective equipment, and emergency response procedures for personnel:

Leakage of granular materials on the ground may pose a slipping hazard; personnel should take precautions to avoid slipping or falling.

Environmental protection measures:

Prevent entry into ditches and sewers to avoid environmental impact.

Leak Response:

In the event of a ground leak, sweep or shovel the material into appropriate containers, or use appropriate containment equipment to absorb it.

In the event of a spill on the water surface, this product is insoluble in water and, due to its lower density than water, will float on the surface; in such cases, a containment fence may be used to limit its spread, after which it can be removed by skimming or scooping.

Part 7: Handling, Disposal, and Storage

Operating precautions:

Prevent the accumulation of static electricity.

During processing, adequate indoor air circulation should be maintained.

Storage precautions:

Store in a cool, well-ventilated warehouse, away from heat sources, ignition sources, and flammable materials.

The storage area shall be equipped with emergency response equipment and appropriate containment materials.

Part 8: Exposure Control / Personal Protection

Occupational exposure limits:

PC-TWA (mg/m³): 5 (total dust)

engineering control:

Provide adequate ventilation to ensure that the exposure levels at the work site do not exceed the permissible limits.

Provide safe shower or eye-washing facilities.

If substantial smoke is generated during the heating treatment of this product, it is recommended to monitor for potential thermal decomposition or oxidation by-products.

Personal Protective Equipment:

Respiratory protection: Please wear a dust mask; if the dust concentration in the air is high, you should wear an air respirator.

Hand Protection: Use standard work gloves; if contact with hot materials is required, wear heat-resistant gloves.

Eye protection: Protective goggles.

Skin and body protection: Anti-static workwear.

Part 9: Physicochemical Properties

Appearance and properties: Translucent or opaque white granules, virtually odorless.

pH value: Not available

Melting point (°C): 120–170

Relative density (with water as 1): 0.88–0.92

Boiling point (°C): Not available

Relative vapor density (with air as 1): No data

Octanol/water partition coefficient: No data available

Flash point (°C): Not available

Auto-ignition temperature (°C): 570

Lower explosive limit:20 g/m³ (dust concentration)

Solubility: Insoluble in water

Part 10: Stability and Reactivity

Stability: Stable under normal operating conditions.

Conditions to avoid exposure to: heat sources and ignition sources.

Contraindications: Aromatic hydrocarbons, halogenated hydrocarbons, and strong oxidizing agents.

Adverse reactions: None

Hazardous decomposition products: No data available

Part 11: Toxicological Information

Acute toxicity: This product exhibits extremely low toxicity.

Skin irritation or corrosion: No skin irritation or corrosion occurs.

Eye irritation or corrosion: This product does not cause chemical or biological irritation to the eyes; however, mechanical irritation may occur.

Carcinogenicity: IARC (International Agency for Research on Cancer) classifies it as Group 3 (its carcinogenicity in humans cannot be classified).

Part 12: Ecological Information

Ecotoxicity: This product is insoluble in water and is considered harmless to aquatic organisms.

Durability and degradability: This product is resistant to degradation and can persist in the environment for extended periods.

Bioconcentration or bioaccumulation: This product exhibits very low bioaccumulation potential.

Soil mobility: This product consists of solid particles, is insoluble in water, and will not migrate in soil.

Part 13: Waste Disposal

Waste disposal options: Priority should be given to recycling and reuse; if not feasible, incineration under supervision may be considered.

Precautions for disposal: Before disposal, refer to applicable national or local regulations.

Part 14: Transport Information

UN Number: Not applicable

UN transport designation: Not applicable

UN Classification of Hazard: Not Applicable

This product is not classified as a hazardous material and is therefore not subject to hazardous materials transport regulations.

Transportation precautions:

At the time of loading, the packaging must be intact, and the cargo must be securely loaded. During transport, it shall be ensured that the containers do not leak, collapse, fall, or sustain damage. Mixing or co-transporting with strong oxidizing agents is strictly prohibited. During transit, protection against direct sunlight, rain, and high temperatures shall be provided.

Part 15: Regulatory Information

The following laws, regulations, rules, and standards contain corresponding provisions governing the management of this chemical substance:

Work Safety Law of the People's Republic of China

Law of the People's Republic of China on the Prevention and Control of Occupational Diseases

Environmental Protection Law of the People's Republic of China

Occupational exposure limits for hazardous
factors in the workplace **Hazardous Chemicals**

Catalog: Not included

List of Highly Toxic Substances: Not included

Part 16: Other Information

revision note:

Prepared in accordance with the standards GB/T 16483-2008 *"Safety Data Sheet for Chemicals — Content and Sequence of Items"* and GB/T 17519-2013 *"Guidelines for Preparation of Safety Data Sheets for Chemicals"*.

Abbreviation Key:

PC-TWA: Time-Weighted Average Permissible Concentration refers to the average permissible exposure concentration over an 8-hour workday and a 40-hour workweek, with time serving as the weighting factor.

disclaimer:

The information in this SDS applies only to the specified product; unless otherwise specified, it does not apply to mixtures of this product with other substances.