Zhejiang Satellite Chemical Industry Co., Ltd.

Material Safety Data Sheet (MSDS) for Functional Masterbatch **Revised on 20251215**

I. Product Name and Manufacturer Information

Product Name: Polystyrene
Product specifications: 525
Other names: --
Material Usage: Injection Molding
Manufacturer: Zhejiang Satellite Chemical Industry Co., Ltd.

II. Overview of Hazards

Product hazard classification: Non-hazardous material Classification criteria: 4th Rev. UN GHS, 29 CFR 1910.1200 (OSHA), 1272/2008/EC (CLP) & 1907/2006/EC (REACH)
Label content: None
Symbol: None
Warning: None
Hazard warning information: None
Hazard prevention measures: None
Other hazards: None

III. Main Composition and Performance

The product is a mixture of polypropylene and functional additives.	CAS NO:				
Form	CAS No	EC No	Conc.	CLP	Scale
Polystyrene	9003-53-6	--	--	--	100

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IV. First Aid Measures

First aid methods for different exposure routes:

Eye contact: If the eyes are exposed to a hot liquid product, rinse the eyes with cold water for more than 15 minutes and seek immediate medical treatment.

Inhalation: Move the patient to a ventilated area and allow them to breathe fresh air. If dyspnea occurs, provide oxygen therapy. If respiration is impossible, immediately perform artificial respiration and seek medical treatment promptly.

Skin contact: If exposed to molten polystyrene material, immediately rinse with large amounts of cold water or apply ice water for cooling. Note: If skin contact with molten polystyrene has caused burns, do not attempt removal even after it has hardened, as this may lead to further damage to skin tissues.

Ingestion： /

Protection for emergency responders: Move the patient to a ventilated area and perform first aid in a safe zone.

Recommendations for physicians: If dyspnea occurs during inhalation, oxygen therapy should be considered.

Most significant symptoms and harmful effects: None

V. Fire Extinguishing Measures

Applicable fire extinguishing agents: chemical dry powder, foam, carbon dioxide, water.

Special hazards that may be encountered during fire suppression: Irritant/toxic gases may be released from the fire scene.

Special fire extinguishing procedure: Water jets may cause fire spread

Special protective equipment for firefighters: Wear of air breathing apparatus (SCBA) and full-body protective equipment

VI. Leakage Handling Methods

Personal precautions: Avoid dust accumulation and aggregation

Environmental precautions: None

Cleaning method: Use a shovel to transfer the contents to the sealed container marked for disposal, then proceed with disposal in accordance with local regulatory requirements.

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VII. Safe Operation, Disposal and Storage Methods

Operational precautions:

To prevent dust accumulation and aggregation, equipment should be grounded to avoid static electricity and contact with heat sources or high-temperature substances.

The temperature of processing equipment must not exceed 230°C.

Avoid inhaling volatile gases emitted by the product when heated, and appropriate exhaust equipment should be available in the workplace.

Storage precautions:

Store in a dry, well-ventilated place at normal room temperature.

Avoid direct sunlight exposure and keep away from sources of ignition and heat.

Firefighting equipment of corresponding types and quantities shall be provided, along with leakage emergency response devices and appropriate containment materials.

VIII. Contact Control/Personal Protection

Engineering control				
Controlling parameter	8 Hourly chart Total allowable concentration (TWA)	Short-term flat Maximum allowable concentration (STEL)	Maximum Allowable Concentration (CEILING)	Bioequivalence Index (BEI)
Smell	3mg/m3	10mg/m3	--	--

Personal protective equipment:

Standard workwear, safety leather shoes

Eye protection: Dust-proof goggles

Respiratory protection: Use self-suction filtering masks when odors are present, and employ dust masks if particulate levels are excessively high.

Hand protection: Wear cotton gloves

Other precautions: Smoking is strictly prohibited at the workplace. Ensure proper ventilation.

IX. Physical and Chemical Properties

Appearance: Transparent dense granules	Odor: Tasteless
PH:--	Melting point: 240°C
Boiling point： --	Decomposition temperature： --
Autogenous ignition temperature： --	Explosion limit： --
Solubility: Insoluble in water	Relative density: 1.04-1.13

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Logarithm of octanol/water partition coefficient:	Saturated vapor pressure: --
Seasonal density: --	Volatile rate: --
Flash point： --	Inflammability： --
Combustion heat： --	

X. Stability and Reactivity

Stability: Stable
Potential adverse reactions under special circumstances: Precautions to avoid: Avoid long-term storage in excessively hot environments and direct sunlight exposure. Substances to be avoided: Avoid contact with strong oxidizing agents Hazardous decomposition products: Toxic organic gases, carbon monoxide, and carbon dioxide may be generated during high-temperature decomposition.

XI. Toxicological Data

Exposure route: No applicable data
Symptoms: No applicable data
Acute toxicity: No applicable data
Chronic toxicity or long-term toxicity: No applicable data

XII. Ecological Data

Ecotoxicity: No applicable data
Persistence and degradability: No applicable data
Bioaccumulation: No applicable data
Soil mobility: Floating on water surfaces and soil surfaces

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XIII. Waste Disposal Methods

Disposal method: Recyclable and reusable, or treated by incineration or landfill.

XIV. Transportation Information

Hazardous Materials Number: No applicable data
United Nations Transport Code: No applicable information
Packaging category: No applicable information
Marine pollutants: No

Fifteen,Regulatory Information Materials

1. Regulations on the Safety Management of Chemical Substances, Detailed Rules for the Implementation of the Regulations on the Safety Management of Chemical Substances, and Provisions on the Safe Use of Chemicals in Workplace Settings 2. Other environmental, health, and safety regulations related to this product are specifically described in the Product Suitability Data (RAPIDS). This suitability data sheet can be obtained by contacting your sales representative.

Sixteen Other Information

Remarks	1. In the aforementioned data, the symbol "-" indicates no relevant information currently available, while the symbol "/" signifies that this column field is not applicable to the substance in question. 2. The above information is compiled by our company based on available data, detailing essential precautions for general rubber product applications of this product. We recommend that users thoroughly review this documentation prior to processing to ensure safe operation and proper disposal of waste materials. For inquiries, please contact our sales representatives or technical service personnel. This manual does not guarantee extended applicability to processed products. Users must conduct product testing or certification to fully comply with relevant regulations and client requirements, particularly for specialized applications such as pharmaceutical and food industries.
Tabulator	Zhejiang Satellite Chemical Industry Co., Ltd.
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