MSDS

1. Products and manufacturers

Product Name: TPU
English name: Thermoplastic Polyurethane Elastomer.
Address: Room 2118 CITIC Tower，NO.77 Changjiang Road,Yantai China
Tel :(+86) 0535-6209089
Fax: (+86) 0535-6206189
Emergency telephone :(+86) 0535-6209089
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2. Composition / Information on Ingredients

This product is a thermoplastic polyurethane elastomer, the elastomer content of greater than 99.5%, this product does not contain any toxic ingredients, all additives are combined (i.e. its package) with a compound of physics in the use, handling and processing without harm .

3. HAZARDS

This product is not harmful at room temperature.
It may produce fumes and gases in the processing temperature (150 ~ 250 ℃), if the poor ventilation, may irritate the eyes, skin and respiratory system.
The molten polymer may be the eyes and skin burns. Spilled particles may be slippery.
Chronic Hazard: None
Pathways: inhalation of vapors, skin or eye contact with molten polymer.
Carcinogenicity: IARC (IARC) have not been included.

4. First-aid

Inhalation: If inhaled gas processing or decomposition products, remove victim to fresh air. If irritation develop or continue, seek medical attention.
Eye Contact: Flush with water, is limited to the physical effects
Skin contact: Wash with plenty of soap and water to clean the contact surface, if the molten material with skin contact with water or rapidly cooled by ice, in a doctor's help to remove adhesions, and the surface treatment of burns.

Ingestion: adverse effects unknown.

5. Fire-fighting measures

Burning: In case of fire, polymer degradation, smoke, toxic gases and irritating compounds (see column 10) is not recognized.
Extinguishing Media: Under fire is small, use dry powder, CO2, water spray or foam for fire fighting general. Fire larger cases, the use of sprinklers, water spray or regular foam fire; do not use water stream.
Fire equipment: Firefighters should be equipped with a positive pressure self-contained breathing apparatus to breathe, and wear protective clothing, evacuation, fire source isolation.

6. ACCIDENTAL

If spilled, for cleaning, and turn it into a container, re-use or disposal.

7. Processing and storage

Do processed products in the proposed thermal processing temperature. In most cases, to be equipped with good ventilation. And set up local exhaust ventilation at the operator position.
Avoid inhalation of fumes and gases produced during thermal processing.
Avoid breathing dust generated by the product of mechanical handling equipment.
When carrying the product, use proper grounding to avoid static electricity.
Fall on the floor particles can make people fall.
Storage: To ensure the quality of products, it is recommended in cold, dry storage area and tightly sealed in a bag.

8. Exposure controls / personal protection

Respiratory Protection: For most cases, without the need for respiratory protection. In the absence of adequate ventilation, high temperatures during processing, acceptance should wear a air purifier.
Eye protection: potentially dangerous contact with solid particles or vapors cause eye discomfort, wear goggles.
Skin protection: thermal processing, handling hot product wear gloves.

9. Physical and chemical properties

Appearance: spherical particles
Odor: odorless
Boiling point / range: -
Melting point / range: between 125 ~ 230 ℃
Flash Point: - Pressure: -
Density: 1 ~ 1.40g / cm3
Solubility: insoluble in water

10. Stability and reactivity

The product is stable at room temperature.
Hazardous Polymerization: Will not occur.
The molten polymer is water vapor, carbon dioxide, and other degradation products.
Hazardous degradation products: No decomposition gases measured adequately, but may include CO, CO2, and a small amount of cyanide, nitrogen oxides, hydrocarbons, isocyanates, and mixtures of water vapor mentioned, as well as smoke. There may also be circulated in the thermal process the material.
Do not heat at temperatures above 260 ℃.

11. Toxicological Information

Inhalation: At room temperature, not exposed to dust and gas. Gas processing high temperature generated by the human cause irritation and sensitization.
Eye Contact: Solid or dust due to mechanical motion irritating to the eyes. Elevated processing temperatures may produce gas, irritation of the eyes.
Skin contact: At room temperature, the skin without irritation.
At high temperatures, the gas may produce skin sensitization.
No toxicological studies.

12. ECOLOGICAL INFORMATION

Offerings no negative impact.
No ecological tests.
Because it does not dissolve in water, the product has a very low toxicity to aquatic organisms.

13. Disposal considerations

Unused product is not considered hazardous waste.
Do not place the product into the sewer, or water on the floor.
In accordance with local laws and regulations, waste products can be processed by incineration and landfill.

14. Transport Information

During transportation, the product is non-dangerous goods in the domestic and international transport unregulated.

15. Regulatory Information

China: All components of this product are included in the "China Existing Chemical Substances in China" in.
European Inventory of Existing Chemical Substances (EINECS): This product is all the raw materials are included in the EINECS.
Toxic Substances Control Act (TSCA): All ingredients are TSCA inventory.

16. other information

DISCLAIMER:

The above information provided herein is intended to promote its health, safety and environmental knowledge, data and information is truthful and accurate to secure given the information, but does not assume any express or implied warranty of any statement or recommendation.

On the processing of this product, the conditions or methods storage, use and disposal does not belong to the scope of our control and we are not liable, disclaims any resulting losses, damages and other costs.

Compliance with laws and regulations of the respective countries and regions belong to consumer responsibility.