Material Safety Data Sheet

According to 91/155/BC Date: 2024-6

1. Manufacture's Name and Contact Information

Product Name: TPR (Thermoplastic Rubber)
Manufacturer/Supplier: Qingdao Dingsu Technology Co. Ltd.
Address: 1-2 Str.Jinxiu 1, Jihong Tan Ave. Chengyang District, Qingdao, China
Tel/Fax: 0086 532 5896085

2. Hazards identification

-Human health affect:
Long and repeated touching would cause allergy to skin. The molten product adheres to skin would cause burns.

-Physical and chemical affect:
Certain extent of material dust in the air would form explosive mixtures. Material would decompose thermally to flammable and harmful substance at high temperature.

3. Composition

Component	Composition (%)	CAS No.
TPR (Thermoplastic Rubber)	>98	9003-55-8
Additives (trade secret)	<2	-

4. First Aid Measures:

- General information
The measures listed below apply to critical situations (Fire, incorrect process conditions). Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. At room temperature the product is neither an irritant nor gives off hazardous vapors.

- If inhaled
In case of excessive inhalation of fumes move the person to fresh air. If signs/symptoms continue, get medical attention. Keep person warm, if necessary, give Cardio-Pulmonary Resuscitation (CPR).

- In case of skin contact

After contact with the molten product, immediately flush with large amounts of water to cool the affected tissue and polymer. Do not pull solidified product away from the skin. Obtain immediate emergency medical attention if burn is deep or extensive.

-In case of eye contact

Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists. In case of eye contact with molten polymer, flush eye(s) with cool running water for at least 15 minutes. Beyond flushing, DO NOT attempt to remove the material adherent to the eye(s). Seek medical attention.

- If swallowed

Get medical advice if necessary. No specific measures have to be taken if the product is swallowed.

5. Fire-fighting measures

- Suitable extinguishing agents

SMALL FIRES: Use dry chemical, CO2, or water spray. Large FIRES: Use water spray hose nozzles from a safe location.

- Unsuitable extinguishing agents:

None - Special hazards caused by the substance or mixture: In case of fire, it can release: water (H2O), carbon dioxide (CO2), and when lacking oxygen (O2), carbon monoxide (CO). The products of the burning are dangerous. The formation of hydrocarbons and aldehydes are possible in the initial stages of a fire (especially in between 300°Cand 700°C).

- Protective equipment:

Wear approved positive pressure self-contained breathing apparatus and firefighter protective clothing.

6. Accidental release measure

- Person-related safety precautions:

Equip responders with proper protection. Creates dangerous slipping hazard on any hard smooth surface. Avoid dispersal of dust in the air and cleaning dust with compressed air.

-Measures for environmental protection:

Do not flush into surface water or sanitary sewer system.

- Measures for cleaning/collecting:

Small spills: Put into a labeled container and provide safe disposal. Large spills: Act as during a limited release. Recycle product or dispose properly.

7. Handling and storage

-Handling:
Avoid fire around the loading area. Avoid causing static electricity during delivery. Be sure to wear a mask during handling and avoid handling under powder dust.

-Storage:
Put in place cool and dry
Avoid direct sunlight, rain and big temperature difference.
Avoid fire around storage place.

8. Exposure controls and protection

-Production control:
Ensure that the working area is well ventilated and conductive to the discharge of dust and volatile water vapor.

-Eye protection:
Dust service goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne particles which may result from handling this product.

-Hands protection:
Wear gloves that provide thermal protection where there is a potential for contact with heated material.

-Skin and body protection:
Wear suitable protective clothing.

-Respiratory protection:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Use appropriate respiratory protection where atmosphere exceeds recommended limits. If appropriate ventilation is not available use face mask when handling the molten product.

9. Physical and chemical properties

Form: Pellets
Color: White / Transparent
Oduor: Slight or No Data available
Boiling point: Not applicable
Steam pressure: Not applicable
Solubility in water: Insolubility
Specific gravity: 0.87-1.3

10. Stability and reactivity

-Stability:

Combustible gas can be released when the temperature is above 300℃

-Incompatibility

Strong oxidation agent

Dangerous products of decomposition: Hazardous decomposition products: carbon monoxide, hydrocarbons and carbon dioxide can be produced when burned

11. Toxicological Information:

- Acute toxicity:

Acute oral toxicity: Not classified.

Acute dermal toxicity: Not classified.

Acute inhalation toxicity: Not classified.

- Primary irritant effect:

- Skin corrosion/irritation: No irritant effect.

- Eye damage/irritation: No irritant effect.

- Sensitization: No sensitizing effect known.

- Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12. Ecological information

Avoid being carried by marine organisms or birds; It is forbidden to discharge waste into ocean and water sources.

13. Disposal

If incineration or landfilling is required, be sure to follow local health and pollution laws and regulations; inadequate incineration can produce toxic gases such as carbon monoxide, ethylene, benzene and toluene

14. Transport information

According to national and international guidelines, which regulate the road-, rail -, air- and sea transport, this product is classified as not dangerous.

15. Regulatory information

WEEE/ROSH
EINECS
TSCA
DSL
AICS
ECL

16. Other information:

The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty for specific product characteristics. PolyMirae takes no responsibility for inappropriate use, processing and handling by purchasers and users of the product.

Department issuing data specification sheet: Qingdao Dingsu Technology Co. Ltd.
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