

## 1 : Commodity

Plastic Reel

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## 2 : Composition

Name : Poly(styrene)

CAS No. : 9003-53-6

Weight percentages >99.9%

Other additives: : <0.1%

Hazard Ingredient : NO

## 3 : Possible hazards: None

## 4 : First aid measures

If inhaled: On inhalation of decomposition products: keep patient calm, remove to fresh air, summon medical help.

On skin contact: areas affected by molten material should be quickly placed under cold running water.

On contact with eyes: wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion: no special measures necessary.

Note to physician:

On inhalation of decomposition products: treat according to symptoms (decontamination, vital functions), no known specific antidote.

## 5 : Fire fighting measures

Suitable extinguishing media: water, dry extinguishing media, foam

Unsuitable extinguishing media for safety reasons: none

The following can be given off in a fire: carbon dioxide (CO<sub>2</sub>) and steam.

In addition small quantities of the following substances can be formed: carbon monoxide, monomers, other degradation products.

Special protective equipment: in case of fire, wear a self contained breathing apparatus.

Further information: dispose of fire debris and contaminated extinguishing water in accordance with local regulations.

### **6 : Accidental release measures**

Methods for cleaning up: sweep/shovel up

### **7 : Handling and storage**

Handling: The cut surface wear gloves in sharp

Storage: Room temperature (5 °C to 28 °C) air humidity 30% 60% stored in indoor, ventilated, avoid light, high temperature storage, away from the fire source

Material shelf life: Viscous products shelf life of 12 months; Appearance avoid light storage, can keep the last six months.

### **8 : Exposure controls and personal protection**

Additional information on the lay-out of the technical plant:(see 7)

Components with workplace control parameters:

Styrene: CAS-No. 100-42-5

Observe the appropriate MAK value (Germany); TRGS 900 (Germany).

Buta-1,3-diene: CAS-No. 106-99-0

The relevant TRK value (Germany) should be noted; TRGS 100, 102 (Germany)

Buta-1,3-diene: According to animal experiments, the substance can be assumed to be carcinogenic.

Given suitable ventilation, it can be assumed that the threshold limits will not be reached.

Personal protective equipment:

Respiratory protection: if breathable dust is formed filter P1 ( for solid particles) (DIN 3181)

Eye protection: safety glasses with free flowing granules.

### 9 : Physical and chemical properties

State of matter	Solid	Shape	Particles loaded
Color	ALL	Smell	Tasteless
Processing temperature	<245°C	melting range	>212°C
Decomposition temperature	>320°C	Flash point	>100°C
Auto-ignition temperature	>400°C	explosion no boundaries	None
Density	1.04-1.09	Solubility	insoluble in water

### 10 : Stability and reactivity

Stability	under recommended storage and handling conditions are stable
The reaction may harm under special conditions	Processing fumes, dust
Conditions to be avoided	Avoid prolonged processing temperatures higher than 245 °C, avoid material degradation temperature environment
Avoid contact with strong oxidants substances	Strong oxidants, alkaline solvent, methylene chloride
Decomposition products	carbon monoxide, carbon dioxide, ash, hydrocarbons

### 11 : Toxicological information

Acute toxicity

No data available. Insoluble in water.

### 12 : Ecological information

Elimination information:

No data available. Insoluble in water.

Behaviour and environmental fate:

Due to the consistency of the product, and its insolubility in water, it will apparently not be bioavailable.

### **13 : Disposal considerations**

Product: must be dumped or incinerated in accordance with local regulations.

### **14 : Transport information**

Not classified as hazardous under transport regulations.

### **15: Laws and regulations files: None**

### **16: Other files: None**

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