

## Material Safety Data Sheet

### Microcrystalline Cellulose

#### Product Identification

**【Product Name】**

Microcrystalline Cellulose

**【Synonyms】**

Hydroxycellulose

Pyrocellulose

**【CAS】**

9004-34-6

**【HS Code】**

39129090

**【Formula】**

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>

**【EINECS】**

232-674-9

**【RTECS】**

FJ5691460

**【RTECS Class】**

Other

**【Beilstein/Gmelin】**

8400008

#### Physical and Chemical Properties

**【Appearance】**

Odorless white substance. Structural polysaccharide used by plants.

**【Solubility in water】**

Insoluble

**【Melting Point】**

260-270

**【Density】**

1.27-1.60 g/cm<sup>3</sup> (20 C)

**【Usage】**

A wide variety of materials including insulation and paper, .

**First Aid Measures****【Ingestion】**

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

**【Inhalation】**

Remove from exposure to fresh air immediately. Get medical aid if cough or other symptoms appear.

**【Skin】**

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

**【Eyes】**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

**Handling and Storage****【Storage】**

Store in a cool, dry place. Store in a tightly closed container. Keep from contact with oxidizing materials.

**【Handling】**

Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

## **Hazards Identification**

### **【Ingestion】**

Ingestion of large amounts may cause gastrointestinal irritation.

### **【Inhalation】**

May cause respiratory tract irritation. Low hazard for usual industrial handling.

### **【Skin】**

May cause skin irritation. Low hazard for usual industrial handling.

### **【Eyes】**

May cause eye irritation.

## **Exposure Controls/Personal Protection**

### **【Personal Protection】**

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin.

### **【Respirators】**

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

### **【Exposure limit(s)】**

NIOSH REL: TWA 10 mg/m<sup>3</sup> (total) TWA 5 mg/m<sup>3</sup> (resp) OSHA PEL: TWA 15 mg/m<sup>3</sup> (total) TWA 5 mg/m<sup>3</sup> (resp)

### **【Poison Class】**

F (Not subject to toxicity classification)

## **Fire Fighting Measures**

### **【Autoignition】**

> 400

### **【Fire Fighting】**

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. To extinguish fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

## **Accidental Release Measures**

### **【Small spills/leaks】**

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

## **Stability and Reactivity**

### **【Stability】**

Stable under normal shipping and handling conditions.

### **【Incompatibilities】**

Strong oxidizers.

### **【Decomposition】**

Carbon monoxide, carbon dioxide.