Material Safety Data Sheet

Microcrystalline Cellulose

Product Identification

【Product Name】
Microcrystalline Cellulose

【Synonyms】
Hydroxycellulose
Pyrocellulose

【CAS】
9004-34-6

【HS Code】
39129090

【Formula】
(C6H10O5)n

【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/cm³ (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 29 CFR 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/m3 (total) TWA 5 mg/m3 (resp) OSHA PEL: TWA 15 mg/m3 (total) TWA 5 mg/m3 (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.