

**Symptoms and Effects of Exposure to Selected Individual Components (continued)****MAGNESIUM OXIDE**

**Inhalation hazard** – Inhalation of fume may cause metal fume fever.

**Other hazards** – Serious hazard from burns. Overexposure may result in eye, skin or respiratory irritation over a long period of time.

**MAN-MADE MINERAL FIBERS – (SYNTHETIC VITREOUS FIBERS)**

**Inhalation hazards** – Exposure to respirable fibers by inhalation may cause temporary upper respiratory irritation, with discomfort and cough. Prolonged exposure may cause chronic lung disease. IARC classifies man-made mineral fibers (diameter <1 µm) as Group 2B, possibly carcinogenic to humans. ACGIH classifies synthetic vitreous fibers as A3, an animal carcinogen with unknown relevance to humans.

**Other hazards** – The mechanical action of fibers may cause skin irritation and irritation of the eyes and nasal passages. Ingestion may cause gastrointestinal irritation, vomiting, and diarrhea.

Note: The emergence of "biosoluble" forms of man-made fibers has allowed these types to be exonerated from classification as a carcinogen according to Note Q in EU Commission Directive 97/69/EC.

**MICA/VERMICULITE**

Thin amber flakes that are odorless. Long-term exposure to a respirable airborne concentration exceeding the TLV may lead to pneumoconiosis, but usually no functional lung impairment. The symptoms most frequently reported are chronic cough and dyspnea. May contain naturally occurring trace amounts of crystalline silica.

**MOLYBDENUM SULFIDE**

**Inhalation hazards** – Causes lung irritation, chest pain, difficult breathing and coughing.

**Other hazards** – Nausea, stomach irritation, vomiting and minor irritation to skin. Can cause abrasive damage to outer eye surface.

**MULLITE**

A mixture of bauxitic kaolin and amorphous glass. May contain naturally occurring trace amounts of crystalline silica. Inhalation hazards – Dust may cause irritation of nasal and respiratory tracts. Long-term exposure may aggravate pre-existing respiratory conditions and may cause pneumoconiosis (kaolinosis).

**Other hazards** – May cause irritation to the skin and eyes. Can cause abrasive damage to outer eye surface. Non-toxic if ingested.

**NITRILE RUBBER**

**Inhalation hazards** - Gases and fumes from thermal processing or decomposition of this product may cause irritation of respiratory tract, skin, and eyes.

**Other hazards** – Eyes – may cause eye irritation if material is introduced into the eye. Eyes may feel scratchy, become red, and tear.

**POTASSIUM TITANATE**

**Inhalation hazards** – May cause irritation of respiratory system. May contain naturally occurring trace amounts of naturally occurring crystalline silica.

**Other hazards** – May be abrasive to skin and eyes. Note: The potassium titanates used here are of the non-acicular forms.

**PHENOLIC RESIN – CURED**

**Inhalation hazards** – Dust may cause irritation of nasal and respiratory tracts. Product is fully cured, so formaldehyde vapor should not be present. If formaldehyde is present, inhalation may cause a form of nasal cancer.

**Other hazards** – Prolonged exposure can cause irritation, redness, tearing of the eyes, and may lead to sensitization of the skin and dermatitis.

**RUBBER (POWDERED)**

**Inhalation hazards** – May cause mild irritation of the respiratory tract. Repeated and prolonged inhalation of dust may lead to a benign pneumoconiosis. This condition may cause some lung function impairment, but is reversible with reduced exposure.

**Other hazards** – Eyes – may cause mild transient eye irritation.