



# MATERIAL SAFETY DATA SHEET

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Friction Material**Product Number:** No. 278  
Fer 3612F, FM 3612F**Manufacturer:**Federal-Mogul Corporation  
26555 Northwestern Highway  
Southfield, MI 48034  
Corporate Phone: (248) 354-9844  
**Emergency Phone:** 1-800-56-SPILL  
(1-800-567-7455) 24-Hr

## SECTION 2: COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Some of the ingredients used to formulate these products may contain hazardous impurities. Manufacturing results in a solid, infusible form, binding and otherwise, rendering the mixture inert. We have identified all the hazardous constituents below present in quantities greater than 0.1%, that may be released from the product by overheating, burning, machining or abrasion. Details on hazardous impurities less than 0.1%, but greater than 0.01% and SARA reportable ingredients appear in section 15

<b>Ingredient</b>	<b>CAS No.:</b>	<b>% Weight</b>	<b>OSHA PEL</b>	<b>ACGIH TLV (2005)</b>
Acrylonitrile polymer fiber >9 microns in diameter	25014-41-9	>1	None Establsihed	1 fiber/cc*
Alumina (non fibrous)	1344-28-1	> 1	15 mg/m <sup>3</sup> (total particulate)	10 mg/m <sup>3</sup>
Aluminum (granules, >100 microns)	7429-90-5	>1	15 mg/m <sup>3</sup> (total particulate)	10 mg/m <sup>3</sup>
Glass fibers (>9 microns in diameter)	65997-17-3	> 1	None Established	None Established
Graphite (natural)	7782-42-5	> 1	15 mppcf	2 mg/m <sup>3</sup> (respirable fraction)
Iron Oxides	1309-37-1	> 1	15 mg/m <sup>3</sup> (total particulate)	10 mg/m <sup>3</sup>

\* As synthetic vitreous fibers per cubic centimeter of sampled air

## SECTION 3: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Shipped friction materials are not considered hazardous, but operations (overheating, burning, machining, abrading, or riveting) that can create airborne dust should be avoided. Such operations could cause exposures in excess of permissible exposure limits for the respective ingredient and should be considered hazardous.

### POTENTIAL HEALTH EFFECTS

**Inhalation:** Dust may cause irritation.

Repeated inhalation of dust over time may affect a variety of organs (See Chronic Section below).

**Skin:** May cause irritation. Prolonged skin contact may cause skin sensitization and/or dermatitis.

**Eye:** Dust may cause irritation and redness. Particles may scratch the eye.

**Ingestion:** Ingestion may cause irritation, nausea, vomiting, and diarrhea.

**Chronic:** Repeated inhalation of dust over time may cause fibrotic lung disease and increased risk of sinus and respiratory cancer. Long-term dust inhalation may also harm the nervous, gastrointestinal, renal (kidneys), and hematological (blood) systems.