MATERIAL SAFETY DATA SHEET

APF Slurry Filler

SECTION I - Product Identification and General Information

Product Name: APF Slurry Filler
Product Use: Inorganic filler for mortars and coatings
Manufacturer: Arizona Polymer Flooring
7731 North 68th Avenue
Glendale, AZ 85303

Date Prepared: 11/10/2009
24 Hour Emergency Assistance
Chemtrec: 1-800-424-9300

SECTION II – Hazardous Ingredients

Ingredient	%	CAS#	LD_{50}	LC_{50}
Crystalline silica	100	14808-60-7	N/A	N/A

SECTION III – Physical Data

Physical State: Solid
Boiling Point: 2230° C
Vapor Pressure: N/A
Vapor Density: N/A
Specific Gravity: 2.65
pH: 6-7

Appearance: White to yellow crystals or dust
Coeff. Water/Oil Dist.: N/A
Evaporation Rate: N/A
Freezing Point: 1750° C
Odor: None

SECTION IV – Fire and Explosion Hazard Data

Flammability: Not Flammable
Flash Point: N/A
Autoignition Temp.: N/A

Means of Extinction: N/A
Upper/Lower Flam. Limit: N/A
Hazardous Combustion Products: None

Explosion Date
Sensitivity to Impact None
Sensitivity to Static Discharge None

SECTION V – Reactivity Data

Chemical Stability: Stable
Incompatibility with other Substances: None
Reactivity, and under what conditions: Silica will dissolve in hydrofluoric acid to give silicon tetrafluoride, a corrosive gas

SECTION VI – Health Hazard Data

Route of Entry					
Skin contact:	No	Skin Absorption:	No	Eye Contact:	No
Inhalation:	Yes	Ingestion:	No		

Effects of Acute Exposure to Product: No potential acute toxic hazards known.

Effects of Chronic Exposure to Product: Excessive inhalation of crystalline silica dust may result in respiratory disease, including silicosis, pneumoconiosis and pulmonary fibrosis. The International Agency for Research on Cancer (IARC) has evaluated in Volume 42, Monographs on the Evaluation of the Carcinogenicity Risk of Chemicals to Humans; Silica and Some Silicates (1987), that there is "sufficient evidence for the carcinogenicity of crystalline silica to experimental animals" and "limited evidence with respect to humans".

Exposure Limits:

OSHA PEL: Exposure to airborne crystalline silica shall not exceed an 8-hour time-weighted average limit as stated in 29 CFR 191.1000 Table Z3 for Mineral Dusts, specifically "Silica: Crystalline: Quartz (respirable)".

Crystalline Quartz (Respirable)	$\frac{250}{\%\ SiO_2 + 5}$ Mppcf	$\frac{10}{\%\ SiO_2 + 2}$ mg/m^3
Quartz (Total Dust)		$\frac{30}{\%\ SiO_2 + 2}$ mg/m^3

ACGIH TLV: Crystalline Quartz
TLV – TWA = 0.1 mg/m^3 (respirable dust).

NIOSH has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air averaged over a work shift of up to 10 hours per day, 40 hours per week.

Irritancy of Product:

Individuals with pulmonary and/or respiratory disease, including, but not limited to, asthma and bronchitis, or subject to eye irritation, should be precluded from exposure.

Sensitization to Product: N/A

Carcinogenicity: See "Chronic Exposure"	NTP: No	IARC Monographs: Level 2A Grouping	OSHA Regulated: No
Teratogenicity	None	Reproductive Toxicity	None
Mutagenicity	None	Synergistic Products	None

SECTION VII – Preventive Measures

Personal Protective Equipment:

Use conventional NIOSH approved or equivalent respiratory protection equipment based on considerations of airborne concentration and duration of exposure.
For sandblasting use appropriate protective equipment and filtered air supply.

Gloves: Abrasion resistant gloves are essential for sandblasting, and desirable for other industrial situations.

Eye: Use appropriate eye protection to minimize contact with dust. Full protective hood is recommended for sandblasting.

Other: Wear appropriate clothing and footwear for the specific application.
Clean clothing that has become dusty.

Engineering Controls:

Use adequate ventilation and dust collection. Do not permit dust to accumulate in work area.

SECTION VIII – First Air Measures

Eyes: Flush with running water. Obtain medical attention if irritation persists.

Gross Remove to fresh air. Give oxygen with artificial respiration as needed. Obtain medical inhalation attention for treatment, observation and support as needed.

SECTION IX – Spill or Leak Procedures

Steps to be taken if material is released or spilled:

If uncontaminated, collect for reuse or disposal. Use dustless procedures. If contaminated, use appropriate method and container for contaminant.

Waste Disposal Method:

If uncontaminated, dispose as an inert; non-metallic mineral.
If contaminated, use appropriate method for contaminant in accordance with applicable regulation(s).

Handling Procedures and Equipment:

Avoid creation of respirable dust if possible. Use adequate ventilation and dust collection.

Storage Requirements:

Store in a dry Place

SECTION X – Shipping Data

N/A

The information in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information given is based on technical data that we believe to be reliable at the time of issue of the MSDS. Because conditions of use are outside our control, it is the responsibility of the user to verify safety data for combinations with other materials, or for use in specific processes, and to verify waste disposal requirements.