

# Flame Guard-814

## MATERIAL SAFETY DATA SHEET

Manufacturer: **Flame Tech Inc.**  
5180 Indiana Avenue  
Winston-Salem, NC 27106

Phone: 1-800-638-3160  
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### PRODUCT IDENTIFICATION

This material Safety Data Sheet is applicable to the following **Flame Tech Inc.** product:

Flame Guard - 814 Chemical Family: Mixture

### HAZARDOUS INGREDIENTS

Contains:	CAS-NO	OSHA PEL	ACGIH TLV	Other Recommended
Sodium Silicate	01344-09-8	n/a		5 mg/m <sup>3</sup>
Calcium Metasilicate	1983-17-0	None Assigned		
Hydrous Aluminum Silicate	01332-58-7	n/a	n/a	
Silica, quartz	14808-60-7	10mg/m <sup>3</sup> / %SiO <sub>2</sub> +2	.1mg/m <sup>3</sup>	Respirable*

The silica in this product is totally encapsulated and thus presents no inhalation Danger to the user.

### CONTAINS NO ASBESTOS

NL	Not Listed
*	Incidental amounts which are naturally occurring components of minerals
**	Respirable dust, use the formula $\frac{10\text{mg}/\text{m}^3}{\% \text{SiO}_2 + 2}$
***	Total dust. All others are respirable dust.

### Appearance and Odor

A red paste with no odor

### Fire Hazard Data-Non-combustible

Boiling Point:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Specific Gravity:	1.8
Melting Point:	N/A
Evaporation Rate:	N/A
Solubility in Water:	Product is a mixture, partly soluble in water until heat cured.

### Special Firefighting Procedures

Not Applicable

### Reactivity Data

Flame Guard - 814 is stable and hazardous polymerization will not occur. When heated to decomposition, oxides of carbon will be released.

### HEALTH HAZARD DATA

Carcinogenicity			
Substance	NTP	IARC	OSHA
Quartz	YES	2A	NO
Caution: Contains Quartz (crystalline silica)			

The International Agency for Research of Cancer (IARC) classes this substance in Group 2A which IARC defines as "probably carcinogenic to humans."

According to IARC there is sufficient evidence of carcinogenicity of crystalline silica to experimental animals and limited evidence of the carcinogenicity of crystalline silica to humans. On the basis of sufficient evidence of carcinogenicity in experimental animals, NTP (National Toxicology Program) places this substance in the group which may reasonably be anticipated to be carcinogens. It is recommended that a NIOSH approved respirator for toxic dusts be worn whenever working with this product results in airborne dust exposure exceeding the prescribed limits. Quartz is not classified as a carcinogen by OSHA.

Substance	NTP	IARC	OSHA
Attapulgate	NO	3	NO

Note: IARC classes Attapulgate clay in Group 3 which is used to describe substances whose carcinogenicity to humans, because of inadequate evidence cannot be classified as possible, probable, or definite. IARC reported inadequate epidemiological evidence of the carcinogenicity of Attapulgate to clay to humans, noting that injection of Attapulgate clay into experimental rats has been shown to induce tumors. Attapulgate is not classified as a carcinogen by NTP or OSHA.

### Skin Contact

Continued and prolonged contact may cause transient irritation to the skin.

### Eye Contact

Direct contact may cause eye irritation.

### Inhalation

Exposure occurs when sanding the dried product  
Target Organ: respiratory system

### Signs and Symptoms of Exposure to Airborne Dust

Continued and prolonged exposure to airborne dust concentrations in excess of the PEL/TLV may result in cough, dyspnea, wheezing and impaired pulmonary function.

### Medical Conditions Generally Aggravated by Exposure

Overexposure would generally aggravate respiratory system dysfunctions.

### First Aid Procedures:

**EYE:** Immediately flush with water for 15 minutes and get medical attention.

**SKIN:** Flush and wash with soap and water. Get medical attention if the condition persists.

**BREATHING:** Move the exposed person to fresh air at once; Get medical attention.

### PRECAUTIONS FOR SAFE HANDLING

Steps to be taken if material is released or spilled: Scoop up for possible re-use or disposal.

### Waste Disposal Method

Not a hazardous waste. Dispose in accordance with applicable federal, state and local regulations.

### Precautions in Handling and Storing

Keep from freezing to preserve usefulness.

### CONTROL MEASURES

#### Work Hygiene Practices

Avoid creating dust.

#### Ventilation

If sanding provide ventilation to keep the dust levels below PEL/TV.

#### Respiratory Protection

Use a NIOSH approved respirator if the PEL/TV is exceeded.

#### Eye Protection

Safety glasses or goggles.

**Protective Gloves:** Wear Protective Gloves