

**MATERIAL SAFETY DATA SHEET**

**Product Identifier:** Geaquello® E824  
**Use of the Substance/Preparation:** sealant preparation for multiple applications  
**Supplier:** Fire Protection Technologies, Inc., Suite 160 8000 Research Forest Drive The Woodlands, TX 77382  
Telephone: Phone: (818) 730-7749 FAX: (936) 271-4114  
**Emergency Number:** (818) 730-7749

**INFORMATION ON COMPOSITION**

**Chemical Characterization (Preparation)**  
**Description:** Solution of colloidal silicic acid in water

	CAS	Name	Content	Unit	Label
	N/A				

**Risk Phrases for Hazardous Ingredients:**

**HAZARD IDENTIFICATION**

**Hazard for Human and Environment** None

**FIRST AID MEASURES**

**General Instructions**  
**Inhalation**  
**Skin Contact** Wash away with water  
**Eye Contamination** Flush with water  
**Ingestion** Call a physician

**FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media** all  
**Extinguishing Media not to be used** None  
**Hazardous Combustion Products**  
**Specific Personal Protection for Fire-Fighting** Not necessary

**ACCIDENTAL RELEASE MEASURES**

**Personal Safety Measures:** Not required  
**Environmental Protection Measures** Not required  
**Procedures for Cleaning up** Wash away with water  
**Additional Information**

**HANDLING AND STORAGE**

**Handling** Keep separated from food stuffs  
**Fire and Explosion Protection** Not necessary  
**Storage**  
**Recommended Storing Conditions** Keep closed container in a frost free place  
**Storage Segregation**  
**Additional Information**  
**Storage Class** none

**EXPOSURE LIMITING MEASURES AND PERSONAL PROTECTIVE EQUIPMENT**

**Information for Plant Design**  
**Ingredients with Exposure Limits**

<b>to be monitored</b>	No data available	
<b>Environmental Exposure Controls</b>		
<b>Personal Protection</b>	Respiratory	Dust protection mask
	Eye Protection	
	Hand Protection	Gloves
	Skin Protection	
	General Protection Measures	Keep separated from food stuffs

**PHYSICAL AND CHEMICAL PROPERTIES**

State: liquid  
Color: blue  
Odor: odorless  
Appearance:

	Value/Range	Unit	Method (67/548/EG)
Phase Transition			
Boiling Point/Range	Approx 100	°C	At 1013 hPa
Melting Point/Range	Approx 0	°C	
Flash Point	N/A		
Flammability			
Ignition Temperature	N/A		
Auto-flammability			
Fire Supporting Properties			
Danger of Explosion	N/A		
Explosion Limit (upper) Explosion Limit (lower)			
Vapor Pressure at 20°C	23	hPa	water
Density at 20°C	1.1	g/cm <sup>3</sup>	
Bulk Density at 20°C			
Solubility in Water at 20°C	miscible		
pH at 20°C	7-8		
Partition Coefficient in Octanol/Water			
Dyn. Viscosity at 20°C Kin. Viscosity at 20°C	< 10	mPasmm <sup>2</sup> /s	
Solvent Separation Test			
Solvent Content			

**STABILITY AND REACTIVITY**

Conditions to Avoid None  
Materials to Avoid  
Hazardous Decomposition Products none

**TOXICOLOGICAL INFORMATION**

Acute Toxicity Data for substance 1  
LD/LC<sub>30</sub> values relevant for classification

Resorption	Value/Range	Species	Method
------------	-------------	---------	--------

Oral	>15000	rat	LD50
Dermal			
Inhalative			

**Specific Symptoms observed in Animal Tests:**

**Primary Irritation**

	Effect	Species	Method
Skin	Non irritant		
Eye	Non irritant		

**Sensitization:**

	Effect	Species	Method
Skin			
Respiratory			

Effect after Prolonged and/or Exposure:  
Carcinogenic, Mutagenic or Teratogenic Potential:  
Additional Information

**Practical Experience:**

Observations Relevant to Classification:  
General Remark: no risks known

**ECOLOGICAL INFORMATION**

**Information on Elimination**

Procedure  
Analytical Methods  
Degree of Elimination  
Classification  
Text of Assessment  
Additional Information:

**Information on Environmental Behavior**

Ingredients  
Mobility and Potential of bioaccumulation  
Additional Information

**Ecology Toxicity**

Aquatic Toxicity  
Remark  
Behavior in waste water treatment plants  
Remarks  
Assessments according to ISO 8192 B:  
Additional Information

**Further Ecological Remarks**

CBSB<sub>5</sub> – Value:  
BSB-Value:  
AOX-Value:  
Preparation contains the following heavy metals and Substances mentioned by EG-Guideline No. 76/464/EWG  
General Remarks:

**DISPOSAL**

**Product disposal**

<b>Recommendation</b>	Harden with gypsum and disposal according to the local recommendations. Small quantities can be diluted with water and then handle as waste water.
<b>Waste No. (EWC)</b>	170802
<b>Waste Name</b>	Gypsum-based construction materials other than those mentioned in 170801
<b>Proof Requirement</b>	none
<b>Density</b>	~1.10 to/cbm
<b>Unit</b>	to

**Contaminated Packages**

<b>Recommendation</b>	
<b>Waste-No.</b>	200139
<b>Waste Name:</b>	Plastics none

<b>Proof requirement</b>	
<b>Recommended cleansing agent</b>	water

**TRANSPORTATION INFORMATION**

**Land Transport ADR/RID and GGVS/GGVE**

<b>ADR/RID/GGVS/GGVE</b>	
<b>Warning Plate</b>	
<b>Hazard No.</b>	
<b>Substance No.</b>	
<b>Name</b>	
<b>Remarks</b>	
<b>Hazard Sheet 1</b>	

**Transport by Ship AND/ADNR**

<b>ADN/ADNR-Class</b>	
<b>Number Character</b>	
<b>Category</b>	
<b>Name</b>	
<b>Remarks</b>	

**Naval Transport AND/ADNR**

<b>IMDG/GGVSee-Class</b>	
<b>UN-Nr.</b>	
<b>PG</b>	
<b>EMS-No.</b>	
<b>MFAG</b>	
<b>Marine pollutant</b>	
<b>Correct Tech. Name</b>	
<b>Remarks</b>	

**Air Transport ICAO-TI and IATA-DGR**

<b>ICAO/IATA-Class</b>	
<b>UN/ID-No.</b>	
<b>PG</b>	
<b>Correct Tech. Name</b>	
<b>Remarks</b>	

**Additional Information:** No hazardous good in accordance with national or international transport regulations. Sensitive to temperatures lower than 5°C

**REGULATORY INFORMATION**

**Labeling according to EG-Regulation**

<b>Labeling and Hazard Identification of the Substance/Preparation:</b>		
<b>Hazardous Ingredients to Indicate:</b>		
<b>contains</b>		
<b>R-Phases</b>		
<b>S-Phases</b>		
<b>Special Labeling of selected Preparations</b>	Acc. App.II of Guideline 89/379/EWG)	

**ADDITIONAL INFORMATION**

The information given in this publication is based on the present state of our knowledge. The above data, Indications and recommendations may be altered at a later date and are without legal liability.

Department Responsible for Edition: Technology

Telephone: **++49-(0)561-5801-334**

### PREPARATION INFORMATION

Prepared by  
Preparation Date:  
Telephone:  
Internet Address:  
General Abbreviations:

Fire Protection Technologies, Inc.  
**Date: April 1, 2009**  
Phone: (818) 730-7749 FAX: (936) 271-4114  
[www.fptm-flammadur.com](http://www.fptm-flammadur.com)  
% (wt.) = Weight Percentage  
ACGIH = American Conference of Governmental Industrial Hygienists  
CAS Number = Chemical Abstract Series Number  
DSL = Domestic Substance List in Canada  
H =Hours  
HMIS =Hazardous Material Identification System  
IARC = International Agency for Research on Cancer  
LC<sub>50</sub> = Lethal Concentration, 50%  
LD<sub>50</sub> =Lethal Dose, 50%  
MSHA = Mine Safety and Health Administration  
N/A= Not Applicable or Not Available  
N/E= None Established  
NIOSH = The National Institute for Occupational Safety Health  
NTG = National Toxicology Program  
OSHA = The Occupational Safety and Administration  
STEL = Short Term Exposure Limit  
TDG = Transportation of Dangerous Goods  
TLV = Threshold Limit Value  
TSCA = Toxic Substance Control Acts in US  
VOC = Volatile Organic Compounds  
WHMIS = Workplace Hazardous Material Identification System

Information given herein is to the best of our knowledge and is only related to the product as delivered in order to give a complete review of safety aspects accurate as of the date indicated. All data given are never meant to guarantee product properties. It is the sole responsibility of the user to take all precautions required in handling the product.