

**MATERIAL SAFETY DATA SHEET**

**Product name:** FS-ONE High Performance Intumescent Firestop Sealant  
**Description:** One-part acrylic-based sealant  
**Supplier:** Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121  
**Emergency # (Chem-Trec.):** 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

**INGREDIENTS AND EXPOSURE LIMITS**

Ingredients:	CAS Number:	PEL:	TLV:	STEL:
Polyacrylate dispersion	Mixture	NE	NE	NE
Calcium carbonate	001317-65-3	5 mg/m <sup>3</sup> (T)	10 mg/m <sup>3</sup> (T)	NE
Zinc borate	138265-88-0	NE	NE	NE
Ammonium polyphosphate	068333-79-9	NE	NE	NE
Talc	014807-96-6	20 mppcf	2 mg/m <sup>3</sup>	NE
Expandable graphite	012777-87-6	5 mg/m <sup>3</sup> (T)	2 mg/m <sup>3</sup> (T)	NE
Ethylene glycol	000107-21-1	NE	C:100 mg/m <sup>3</sup> (A)	NE
Polybutene	009003-29-6	NE	NE	NE
Iron oxide	001309-37-1	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	NE
Glass filament	065997-17-3	NE	5 mg/m <sup>3</sup> (T)	NE
Silicon dioxide	014808-60-7	0.05 mg/m <sup>3</sup> (T)	0.1 mg/m <sup>3</sup> (T)	NE
Water	007732-18-5	NE	NE	NE

**Abbreviations:** PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. C = Ceiling. STEL = Short Term Exposure Limit. NE = None Established. NA = Not Applicable. (T) indicates "as total dust". (R) indicates "as respirable fraction". (A) indicates "as an aerosol". mppcf = million particles per cubic foot.

**PHYSICAL DATA**

<b>Appearance:</b>	Red paste.	<b>Odor:</b>	Odorless.
<b>Vapor Density: (air = 1)</b>	Not determined.	<b>Vapor Pressure:</b>	23mbar @ 20C / 68F
<b>Boiling Point:</b>	Not applicable.	<b>VOC Content:</b>	75.0 g/L.
<b>Evaporation Rate:</b>	Not applicable.	<b>Solubility in Water:</b>	Soluble.
<b>Specific Gravity:</b>	1.5	<b>pH:</b>	Not determined.

**FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point:</b>	Non-flammable.	<b>Flammable Limits:</b>	Not applicable.
<b>Extinguishing Media:</b>	Not applicable. Use extinguishing media as appropriate for surrounding fire.		
<b>Special Fire Fighting Procedures:</b>	None known. Use a self-contained breathing apparatus when fighting fires involving chemicals.		
<b>Unusual Fire and Explosion Hazards:</b>	None known. Thermal decomposition products can be formed such as oxides of carbon, sulfur and phosphorous.		

**REACTIVITY DATA**

<b>Stability:</b>	Stable.	<b>Hazardous Polymerization:</b>	Will not occur.
<b>Incompatibility:</b>	Strong acids, peroxides, and oxidizing agents.		
<b>Decomposition Products:</b>	Thermal decomposition can yield CO and CO <sub>2</sub> .		
<b>Conditions to Avoid:</b>	None known.		

**HEALTH HAZARD DATA**

<b>Known Hazards:</b>	None known.		
<b>Signs and Symptoms of Exposure:</b>	Possibly irritating upon contact with the eyes or upon repeated contact with the skin.		
<b>Medical Conditions Aggravated by Exposure:</b>	Eye and skin conditions.		
<b>Routes of Exposure:</b>	Dermal.		

**Carcinogenicity:** IARC classifies crystalline silica (quartz sand) as Group I based upon evidence among workers in industries where there has been long-term and chronic exposure (via inhalation) to silica dust; e.g. mining, quarry, stone crushing, refractory brick and pottery workers. This product does not pose a dust hazard; therefore, this classification is not relevant. Based upon the nature and intended use of this product, it does not pose an increased cancer risk to workers.

#### EMERGENCY AND FIRST AID PROCEDURES

**Eyes:** Immediately flush with plenty of water. Call a physician if symptoms occur.

**Skin:** Immediately wipe off material and wash with soap and water. Material can adhere to the skin. If material has adhered to the skin, use an abrasive containing hand cleaner. If material does not come off, buff with a pumice stone.

**Inhalation:** Move victim to fresh air if discomfort develops. Call a physician if symptoms persist.

**Ingestion:** Seek medical attention. Do not induce vomiting unless directed by a physician. If a large quantity was ingested, give 1 to 2 glasses of water to dilute. Never give anything by mouth to an unconscious person.

**Other:** Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure.

#### CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

**Ventilation:** General (natural or mechanically induced fresh air movements).

**Eye Protection:** Not required, however, safety glasses should be worn in most industrial settings.

**Skin Protection:** Avoid skin contact. Cloth gloves are suitable for hand protection.

**Respiratory Protection:** None normally required. Where ventilation is inadequate to control vapors, use a NIOSH-approved respirator with organic vapor cartridges. Never enter a confined space without an appropriate air-supplied respirator.

#### PRECAUTIONS FOR SAFE HANDLING AND USE

**Handling and Storing Precautions:** Store in a cool, dry area preferably between 40° and 77° F. Keep from freezing. Do not store in direct sunlight. Avoid contact with the eyes or skin. Practice good hygiene; i.e. always wash thoroughly after handling and before eating or smoking. For industrial use only. Keep out of reach of children. Follow label/use instructions.

**Spill Procedures:** Immediately wipe away spilled material before it hardens. Place in a container for proper disposal in accordance with all applicable local, state, or federal requirements.

#### REGULATORY INFORMATION

**Hazard Communication:** This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

**HMIS Codes:** Health 1, Flammability 0, Reactivity 0, PPE B

**DOT Shipping Name:** Not regulated.

**IATA / ICAO Shipping Name:** Not regulated.

**TSCA Inventory Status:** Chemical components listed on TSCA inventory.

**SARA Title III, Section 313:** This product contains < 3% ethylene glycol (CAS 107-21-1) and < 15% zinc borate (re: zinc compounds) which are subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).

**EPA Waste Code(s):** Not regulated by EPA as a hazardous waste.

**Waste Disposal Methods:** Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.

#### CONTACTS

**Customer Service:** 1 800 879 8000      **Technical Service:** 1 800 879 8000

**Health / Safety:** 1 800 879 6000      Jerry Metcalf      (x6704)

**Emergency # (Chem-Trec):** 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.