



### MATERIAL SAFETY DATA SHEET

**Product identifier:** FS-ONE High Performance Intumescent Firestop Sealant  
**Product use:** Impedes the passage of fire, smoke and water through fire-rated walls and floors .  
**Supplier:** Hilti (Canada) Corporation, 2360 Meadowpine Blvd., Mississauga, Ontario L5N 6S2  
**Originator:** Hilti, Inc., P. O. Box 21148, Tulsa, Oklahoma, USA 74121  
**Emergency number:** Chem-Trec: 1 800 424 9300

### INGREDIENTS INFORMATION

Ingredient	CAS Number	% (wt.)	LC <sub>50</sub> , (rat)	LD <sub>50</sub> (rat)	TLV	STEL
Polyacrylate dispersion	Mixture	30 - 40	N/Av	N/Av	N/Av	N/Av
Calcium carbonate	01317-65-3	15 - 20	N/Av	N/Av	10 mg/m <sup>3</sup>	N/Av
Zinc borate	1332-07-6	10 - 15	N/Av	N/Av	N/Av	N/Av
Talc	14807-96-6	05 - 10	N/Av	N/Av	2 mg/m <sup>3</sup>	N/Av
Ethylene glycol	00107-21-1	01 - 05	10,876 mg/kg	4,700 mg/kg	100 mg/m <sup>3</sup>	N/Av
Ferric oxide	01309-37-1	01 - 05	N/Av	N/Av	5 mg/m <sup>3</sup>	N/Av

### PHYSICAL PROPERTIES

<b>Appearance / Physical state:</b>	Red paste.	<b>Odour:</b>	Odourless.
<b>Specific gravity (at 20°C):</b>	1.5	<b>VOC Content:</b>	75.0 g/L
<b>Vapour pressure (at 20°C):</b>	23 mbar	<b>Vapour density:</b>	Not applicable.
<b>Evaporation rate:</b>	Not determined.	<b>Boiling point:</b>	Not determined.
<b>Freezing point:</b>	Not determined.	<b>pH:</b>	Not determined.
<b>Coefficient of H2O / oil distrib:</b>	Not determined.	<b>Solubility in water:</b>	Soluble.

### FIRE AND EXPLOSION DATA

<b>Flash point / Method:</b>	Nonflammable.	<b>Flammable limits:</b>	Not applicable.
<b>Conditions of flammability:</b>	Not applicable.	<b>Auto-ignition temperature:</b>	Not applicable.
<b>Means of extinction:</b>	As appropriate for surrounding fire (e.g. Water, CO <sub>2</sub> , Dry Chemical, Foam).		
<b>Special fire fighting procedures:</b>	None known. A NIOSH-approved self-contained breathing apparatus (SCBA) should be worn when fighting fires involving chemicals.		
<b>Hazardous combustion products:</b>	Thermal decomposition products such as oxides of carbon and nitrogen can be produced under fire conditions. See below.		
<b>Sensitivity to mechanical impact / static discharge:</b>	Not susceptible to mechanical impact or to a static discharge.		

### REACTIVITY DATA

<b>Stability:</b>	Stable.	<b>Conditions of reactivity:</b>	None known.
<b>Incompatible materials:</b>	Strong acids, peroxides and oxidizing agents.		
<b>Hazardous decomposition products:</b>	None known. Thermal decomposition can yield CO and CO <sup>2</sup> .		

### TOXICOLOGICAL PROPERTIES

<b>Routes of exposure:</b>	<input checked="" type="checkbox"/> Skin contact <input type="checkbox"/> Skin absorption <input checked="" type="checkbox"/> Eye contact <input type="checkbox"/> Inhalation <input type="checkbox"/> Ingestion		
<b>Acute effects of exposure:</b>	<b>Eyes:</b> Can cause irritation or watering but injury is unlikely. <b>Skin:</b> Prolonged or repeated contact can cause irritation. <b>Inhalation:</b> No effects expected. <b>Ingestion:</b> Not a likely route of exposure. Considered to have a low acute oral toxicity.		
<b>Chronic effects of exposure:</b>	None known.		
<b>Synergistic materials:</b>	None known.		

## FIRST AID MEASURES

<b>Eyes:</b>	Flush with plenty of water. Contact a physician if symptoms occur.
<b>Skin:</b>	Wash with soap and water. Seek medical attention if any effects persist.
<b>Inhalation:</b>	No ill effects expected. Should discomfort occur, move to fresh air.
<b>Ingestion:</b>	Do not induce vomiting unless directed by a Physician. Contact a physician immediately.
<b>Other:</b>	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure

## PREVENTATIVE MEASURES

<b>Engineering controls:</b>	General (natural or mechanically induced fresh air movements).
<b>Eye protection:</b>	Safety glasses with side shields are recommended.
<b>Skin protection:</b>	Impermeable gloves recommended.
<b>Respiratory protection:</b>	None normally required.
<b>Other:</b>	No additional measures are normally required.
<b>Handling procedures and equipment:</b>	For industrial use only. Keep out of reach of children. Keep container closed when not in use. Do not get into the eyes. Avoid prolonged or repeated contact with the skin. Practice good hygiene; i.e., wash after using and before eating or smoking.
<b>Storage requirements:</b>	Store in a cool dry area. Keep from freezing. Store between 5° and 25° C.
<b>Spill, leak or release:</b>	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.
<b>Waste disposal:</b>	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, provincial, and federal safety, health and environmental regulations.
<b>Special shipping instructions:</b>	Avoid temperature extremes. Keep from freezing.

## REGULATORY INFORMATION

<b>WHMIS classification:</b>	D2A, D2B
<b>HMIS codes:</b>	Health 1, Flammability 0, Reactivity 0, PPE A
<b>TDG shipping name:</b>	Not regulated.

## PREPARATION INFORMATION / CONTACTS

<b>Prepared by:</b>	Hilti, Inc., Tulsa, OK USA	<b>Date of Preparation:</b>	March 29, 2012	<b>Emergency phone number:</b>	1 800 424 9300
<b>Customer Service:</b>	Hilti (Canada) Corporation, Mississauga, Ontario; 1 800 363 4458				
<b>Health / Safety contacts:</b>	Hilti, Inc., Tulsa, OK USA; 1 800 879 6000, Jerry Metcalf (x71003704)				
<b>Abbreviations used:</b>	<b>N/E</b> = None Established. <b>N/A</b> = Not Applicable. <b>N/Av</b> = Not Available. <b>R</b> = as "respirable fraction". <b>IARC</b> : International Agency for Research on Cancer. <b>HMIS</b> : Hazardous Materials Identification System				

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