



**MATERIAL SAFETY DATA SHEET**

**HILTI, INC.** P.O. Box 21148, Tulsa, OK 74121; Ph: 1 800 879 6000; Emergency No.: 1 800 879 4444  
**PRODUCT NAME:** FS-ONE High Performance Intumescent Firestop Sealant  
**DESCRIPTION:** One-part acrylic-based sealant

**For:** DIAMOND B PLUMBING P.O. No. CHRIS  
 3436 AIRPORT DRIVE  
 P O BOX 68  
 BELLINGHAM, WA 98227-0068

**INGREDIENTS AND EXPOSURE LIMITS**

Ingredients:	CAS Number:	PEL:	TLV:	STEL:
Calcium carbonate	000471-34-1	NA	NA	NA
Vinyl acetate	000108-05-4	10 ppm	10 ppm	15 ppm
Zinc borate	138265-88-0	NE	NE	NE
Ammonium polyphosphate	007722-76-1	NE	NE	NE
Talc	014807-96-6	NA	NA	NA
Expandable graphite	012689-13-3	NA	NA	NA
Polyisobutylene	009003-29-6	NE	NE	NE
Iron oxide	001309-37-1	NA	NA	NE
Ethylene glycol	000107-21-1	C:50 ppm	C:100 ppm	NE
Soybean oil	008001-22-7	NE	NE	NE
Glass fiber	065997-17-3	NE	NE	NE

PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. These are 8 hour time-weighted averages unless otherwise indicated by "C" (Ceiling) or "STEL" (Short Term Exposure Limit). NE = None established. NA = Not Applicable.

**PHYSICAL DATA**

<b>Appearance:</b>	Red paste.	<b>Odor:</b>	Odorless
<b>Vapor Density: (air = 1)</b>	Not determined	<b>Vapor Pressure:</b>	Not determined
<b>Boiling Point:</b>	Not applicable	<b>VOC Content:</b>	Not determined
<b>Evaporation Rate:</b>	Not applicable	<b>Solubility in Water:</b>	Slightly 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.		

**REACTIVITY DATA**

<b>Hazardous Polymerization:</b>	Will not occur.	<b>Stability:</b>	Stable.
<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>Routes of Exposure:</b>	Dermal.

**Signs and Symptoms of Exposure:**

Possibly irritating upon contact with the eyes or upon repeated contact with the skin.

**Carcinogenicity:**

Vinyl acetate, in the form of an acrylic emulsion, was used as an ingredient in formulating this product. Vinyl acetate is classified by IARC as a Group 2B carcinogen (inadequate evidence for human carcinogenicity and limited evidence in lab animals). Based upon the nature and intended use of this product, it does not pose an increased cancer risk to workers.

**Medical Conditions Aggravated by Exposure:**

Eye and skin conditions.

**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 to fresh air if discomfort develops.. Call a physician if symptoms persist.

**Ingestion:**

Seek medical attention. Do not induce vomiting unless directed to by a physician. 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 50 and 100° 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:**

Allow to cure and then scrape up and place in a salvage container for proper disposal. See disposal guidelines below.

**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 1, PPE B

**DOT Shipping Name:**

Not regulated.

**TSCA Inventory Status:**

Chemical components listed on TSCA inventory.

**SARA Title III, Section 313:**

This product contains approximately 11% vinyl acetate (CAS 108-05-4), 1-4% ethylene glycol (CAS 107-21-1) and 12% 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 regulations.

**CONTACTS****Customer Service:**

1 800 879 8000

**Emergency:**

1 800 879 4444

**Health / Safety:**

1 800 879 6000 Steve Gerrard (x6309) Jerry Metcalf (x6704)

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.