

## MATERIAL SAFETY DATA SHEET

Product name:	CF 810 Crack & Joint Foam					
Description:	Polyurethane Foam					
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 Numl	per: PEL:	TL	V:	STEL:	
Polymeric diphenylmethane diisoc	-	NE	NE		NE	
Tris(1-chloro-2-propyl) phosphate Methyl ether	13674-84-5 NE 115-10-6 NE		NE NE		NE NE	
1,1,1,2 tetrafluoroethane	811-97-2	NE	NE		NE	
Isobutane	75-28-5	1000 ppm*	NE		NE	
Propane				NE		
Abbreviations: PEL = OSHA Per	rmissible Exposure Limit. <b>TLV</b> = A0	CGIH Threshold Limit Val	ue.			
<b>STEL</b> = Short Te	erm Exposure Limit. $\mathbf{C}$ = Ceiling. $\mathbf{N}$	E = None Established. N	A = Not A	pplicable		
	PHYSICAL	DATA		_		
Appearance:	orange liquid.	Odor:		Mild.		
Vapor Density: (air = 1)	Not determined.	Vapor Pressure:		8.3 bar @ 68° F		
Boiling Point:	Not determined.	VOC Content:		1.9 g/L		
Evaporation Rate:	Not determined.	Solubility in Water:		Not soluble.		
Specific Gravity:	0.9-1.1	pH:		Not determined.		
	FIRE AND EXPLOSIO	N HAZARD DATA				
Flash Point:	Flammable Gas	Flammable Limits:		0.4 - 32%		
Extinguishing Media:	C0₂, Dry Chemical, Foam, Water					
Special Fire Fighting Proc.	None known for cured foam. Uncured isocyanates react with water to release C02.					
Unusual Fire and Explosion Hazards:	Extremely flammable. Contains flammable propellants under pressure. Aerosol cans exposed t fire or direct heat can rupture from pressure build-up.					
	REACTIVIT					
Stability:	Reacts with alcohols, amines, aqueous acids, and alkalis. Reacts with water (moisture) producing CO <sub>2</sub> . I					
Hazardous Polymerization:	Will not occur. Reacts with water (nonviolently).					
Decomposition Products:	Thermal decomposition can yield CO, $CO_2$ , HCN, HCI, $NO_x$					
Conditions to Avoid:	Temperature extremes will shorten product shelf life; i.e. below 41° F / above 77° F.					
	HEALTH HAZ	ARD DATA				
Known Hazards:	Acute: Eye, skin, and respiratory irritation. Chronic: Respiratory and skin sensitization					
Signs and Symptoms of Exposure:	<b>Eyes:</b> Can adhere to cornea. <b>Skin:</b> Can adhere to the skin. Can cause irritation and possibly sensitization; e.g. itching, swelling, rashes, etc. <b>Inhalation:</b> Vapor may cause irritation of the breathing tract and sensitization. Sensitization causes an allergic (asthmatic-like) response. Hypersensitive persons may react at very low isocyanate levels. <b>Ingestion:</b> Effects of ingestion have not been determined. Not a likely route of exposure.					
Routes of Exposure:	Inhalation. Contact.					
Carcinogenicity:	No ingredients are classified as a carcinogen by IARC, NTP or OSHA.					
Medical Conditions	Eye, skin, and respiratory condition	200				

**EMERGENCY AND FIRST AID PROCEDURES** 

Eyes:     Immediately flush with large amounts of water. Contact a physician immediately.       Skin:     Wipe of disk immediately with soft cloth. Cured foam can only be removed mechanically. Contact a physician if symptoms occur.       Inhalation:     Should symptoms occur, immediately move to fresh air. Call a physician if symptoms persist. Those individuals who develop an allergic reaction should avoid future use of this product.       Ingestion:     Contact a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.       CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT       Ventilation:     Ensure adequate air movement (natural or mechanically induced fresh air movements).       Coggles recommended: safety glasses with side shields as a minimum.       Skin Protection:     Contact with skin.       Respiratory Protection:     Not normally required.       Precautions:     Avoid contact with skin, eyes, and respiratory system. Material will adhere to eyes and skin.       Reprint prove ignition sources such as flames or equipment / tool tappy direct heat to the cans. Before using, remove ignition sources such as flames or equipment / tool tappy and 77" F. Always wash thoroughly after handing chemical products. For industrial use only. Keep out of reach of children. Follow table / use instructions.       Spill Procedures:     Chemical components listed on TSCA inventory.       This product corting 5 - 25%						
a physician if symptoms occur.     Inhalation:   Should symptoms occur, immediately move to fresh air. Call a physician if symptoms persist. Those individuals who develop an allergic reaction should avoid future use of this product.     Ingestion:   Contact a physician immediately. Do not induce vomiting unless directed by a physician.     Other:   Referral to a physician immediately. Do not induce vomiting unless directed by a physician.     Other:   Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.     CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT     Ventilation:   Ensure adequate air movement (natural or mechanically induced fresh air movements).     Skin Protection:   Coggles recommended, safety glasses with side shields as a minimum.     Respiratory Protection:   Not normally required.     Precautions:   Avoid contact with skin, eyes, and respiratory system. Material will adhere to eyes and skin.     Respiratory Protection:   Avoid contact with skin, eyes, and respiratory system. Material will adhere to eyes and 27° F.     Avays wash thoroughy after handling chemical products. For industrial use only. Keep out of reach of children. Follow label / use instructions.     Spill Procedures:   Chemical components listed on TSCA inventory.     StARA Title III, Section 313:   Chemical components listed on TSCA inventory.	Eyes:	<b>Immediately</b> flush with large amounts of water. Contact a physician immediately.				
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	Customer Service:	1 800 879 8000 Technical Service: 1 800 879 8000				
Emergency # (Chem-Trec): 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 703 527 3887 (other countries)	Health / Safety:	1 800 879 8000 Jerry Metcalf (x1003704)				
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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.