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MATERIAL SAFETY DATA SHEET

Product identifier: **CFR-1 Cleaner**

Product use: Aerosol solvent for cleaning Hilti foam dispensers.

Supplier: Hilti (Canada) Corporation, 6790 Century Avenue, Suite #300, Mississauga, Ontario L5N 2V8

Hilti, Inc., P. O. Box 21148, Tulsa, Oklahoma, USA 74121 Originator

Emergency number: Chem-Trec: 1 800 424 9300										
HAZARDOUS INGREDIENTS										
Ingredient	CAS Nu	ımber	% (wt.)	LC ₅₀ , (rat)	_	LD ₅₀ (rat)		ΓLV	STEL	
Acetone	067-64-1		40 – 70	50,100 mg/m ³ /8Hr		5800 mg/kg			750 ppm	
2-Propanol Isobutane	067-63-0 75-28-5		15 – 40 15 – 40	16,000 ppm / 8Hr. 65,800 mg/m ³ / 4Hr.		5045 mg/kg N/Av		00 ppm 400 ppm //Av N/Av		
Propane	074-98-6		05 – 10	N/Av				000 ppm	N/E	
PHYSICAL PROPERTIES										
Appearance / Physical state:		Clear aerosol.			Odour:			Alcohol odour.		
Specific gravity (at 20°C):		0.74 – 0.76			VOC Content:			740 – 760 g/l		
Vapour pressure (at 20°C):		N/Av			Vapour density:			N/Av		
Evaporation rate:		N/Av			Boiling point:			N/Av		
Freezing point: N		N/Av	N/Av			pH:			N/Av	
Coefficient of H ₂ 0 / oil	of H₂0 / oil distrib: N/Av			Sol		Solubility in water:		Negligible		
FIRE AND EXPLOSION DATA										
Flash point / Method:		-18 C / 0 F			Flammable limits: 1.4 – 13.0%				6	
Conditions of flammability:		Extrem	ely flammable	e aerosol.	Auto-igni	tion temperature:	N/Av	N/Av		
Means of extinction:		Dry chemical, foam, CO ₂ , water.								
Special fire fighting procedures:		Containers can explode or be propelled through the air when exposed to extreme heat such as fire.								
Hazardous combustion products:		Thermal decomposition can yield CO and CO ₂ .								
Sensitivity to mechanic impact / static discharge										
REACTIVITY DATA										
Stability:		Stable.			Conditions of reactivity:			None known.		
Incompatible materials	s:	Strong	Strong oxidizing agents, acids, and bases. Extreme							
Hazardous decomposi products:	None known. Thermal decomposition can yield CO and CO ₂ .									

TOXICOLOGICAL PROPERTIES						
Routes of exposure:	⊠ Skin contact					
Exposure limits:	See "Ingredients" section above.					
Acute effects of exposure:	Eyes: Irritation and corneal burns can occur from direct contact with the eyes. Skin: Prolonged or repeated skin contact can cause irritation and defatting (drying) of the skin. Inhalation: Can be irritating to the respiratory tract if inhaled. Headaches and dizziness can occur from exposure in poorly ventilated areas. Ingestion: Not a likely route of exposure. Harmful if swallowed.					
Chronic effects of exposure:	Not applicable.					
Synergistic materials:	None known					

FIRST AID MEASURES

Eyes: Flush with plenty of water for at least 15 minutes. Contact a physician if symptoms occur.

Skin: Wash skin with mild soap and water. Seek medical attention if any effects persist.

Inhalation: Remove victim to fresh air. Call physician if symptoms persist.

Ingestion: Do not induce vomiting unless directed to do so by a physician. Contact a physician

immediately.

Other: Referral to a physician is recommended if there is any question about the seriousness of the

injury/exposure.

PREVENTIVE MEASURES

Engineering controls: General (natural or mechanically induced fresh air movements).

Eye protection: Chemical splash goggles are recommended. Safety glasses with side shields as a minimum.

Skin protection: Impermeable gloves recommended.

Respiratory protection: None normally required. Where ventilation is inadequate to control vapors, use a NIOSH-

approved respirator with organic filters.

Other: No additional measures are normally required.

Handling procedures and

equipment:

For industrial use only. Use with adequate ventilation. Do not get into eyes. Avoid prolonged or repeated contact with skin. Practice good hygiene; i.e., wash after using and before eating or smoking. Keep away from heat, sparks and flames. Do not puncture or incinerate container.

Storage requirements: Keep out of reach of children. Store in a cool dry area. Do not expose to heat or store at

temperatures above 49C (120F). Store indoors out of direct sunlight.

Spill, leak or release: Remove all sources of ignition. Remove spillage with absorbent material. Place in closed

containers for disposal.

Waste disposal: Consult federal, provincial and local regulations for allowed means of disposal.

Special shipping instructions: According to TDG shipping regulations. See below.

REGULATORY INFORMATION

WHMIS classification: A, B1, B2, D2B

Health 1, Flammability 3, Reactivity 0, PPE A (Goggles)

TDG shipping name: Consumer Commodity, ORM-D

IATA shipping name; Aerosols, Flammable, Class 2.1, UN1950, Ltd. Qty

PREPARATION INFORMATION / CONTACTS

Prepared by: Hilti, Inc., Tulsa, OK Date of Preparation: Emergency phone

USA January 28, 2009

number:

1 800 424 9300

Customer Service: Hilti (Canada) Corporation, Mississauga, Ontario; 1 800 363 4458

Health / Safety contacts: Hilti, Inc., Tulsa, OK USA; 1 800 879 6000, Jerry Metcalf (x3704)

Abbreviations used: N/Av = Not Available. H = Hours. HMIS: Hazardous Materials Identification System

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