



MSDS No.: 313  
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## MATERIAL SAFETY DATA SHEET

**Product name:** CF 512 Cold Weather Pro – Air Sealing & Filler Foam  
**Description:** One-Component Polyurethane Foam 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:
Urethane Prepolymer Blend	NE / Mixture	NE	NE	NE
4,4' diphenylmethane diisocyanate	101-68-8	NE	0.005 ppm	C: 0.02 ppm
Polymeric MDI	9016-87-9	NE	NE	NE
Liquified Petroleum Gas (LPG)	NE/Mixture	1000 ppm*	1000 ppm*	NE

\* Based on Propane (74-98-6)

**Abbreviations:** PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure Limit. C = Ceiling. NE = None Established. NA = Not Applicable. ppm = parts per million.

## PHYSICAL DATA

<b>Appearance:</b>	Orange foam.	<b>Odor:</b>	Slight hydrocarbon
<b>Vapor Density: (air = 1)</b>	Not determined.	<b>Vapor Pressure:</b>	Not determined.
<b>Boiling Point:</b>	-13° F (LPG)	<b>VOC Content:</b>	2.0 g/l
<b>Evaporation Rate:</b>	Not determined.	<b>Solubility in Water:</b>	Not soluble.
<b>Specific Gravity:</b>	1.1	<b>pH:</b>	Not determined.

## FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point:</b>	- 156° F (propellants)	<b>Flammable Limits:</b>	2.1 – 9.5%
<b>Extinguishing Media:</b>	Carbon Dioxide, Dry Chemical, Foam, and Water Spray.		
<b>Special Fire Fighting Proc.</b>	Isocyanates are not compatible with water. Will generate CO <sub>2</sub> .		
<b>Unusual Fire and Explosion Hazards:</b>	Extremely flammable. Contains flammable propellants under pressure. Aerosol cans exposed to fire or direct heat can rupture from pressure build-up and be propelled through the air.		

## REACTIVITY DATA

<b>Stability:</b>	Reacts upon contact with air. Contact with moisture or water will also cause material to polymerize (non-violently).
<b>Hazardous Polymerization:</b>	Will not occur. Reacts with water (nonviolently).
<b>Incompatibility:</b>	Alcohols, amines, strong bases, alkali metal compounds.
<b>Decomposition Products:</b>	CO, CO <sub>2</sub> , HCN, NO <sub>x</sub>
<b>Conditions to Avoid:</b>	Temperature extremes will shorten product shelf life; i.e. below 32° F / above 90° F. Contact with air or moisture will cause foam to polymerize (cure).

## HEALTH HAZARD DATA

<b>Known Hazards:</b>	<b>Acute:</b> Eye, skin, and respiratory irritation. <b>Chronic:</b> Sensitization
<b>Signs and Symptoms of Exposure:</b>	<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> May irritate mucous membranes. Can cause tightness in chest, coughing, or allergic/(asthmatic-like) response. <b>Ingestion:</b> May cause irritation of mucous membranes in mouth and digestive tract.
<b>Routes of Exposure:</b>	Contact. Inhalation.
<b>Carcinogenicity:</b>	No ingredients are classified as a carcinogen by IARC, NTP or OSHA.
<b>Medical Conditions Aggravated by Exposure:</b>	Eye, skin, and respiratory conditions.

## EMERGENCY AND FIRST AID PROCEDURES

<b>Eyes:</b>	<b>Immediately</b> flush with large amounts of clean water and seek medical attention.
<b>Skin:</b>	Cured product is difficult to remove from the skin. Use a soft cloth to remove excess from skin and clothing. Solvents not recommended for use on skin. If irritation occurs contact a physician.
<b>Inhalation:</b>	If breathing difficulty occurs, immediately move to fresh air. Contact a physician if symptoms persist. Those individuals who develop an allergic reaction should avoid future use of this product.
<b>Ingestion:</b>	Seek medical attention immediately. Do not induce vomiting unless directed by a physician.
<b>Other:</b>	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

<b>Ventilation:</b>	Ensure adequate air movements (natural or mechanically induced fresh air movements).
<b>Eye Protection:</b>	Goggles recommended; safety glasses with side shields as a minimum.
<b>Skin Protection:</b>	Impermeable gloves are recommended. Wear other protective clothing as required to prevent contact with skin.
<b>Respiratory Protection:</b>	Not normally required.

## PRECAUTIONS FOR SAFE HANDLING AND USE

<b>Handling and Storing Precautions:</b>	Avoid contact with skin, eyes, and respiratory system. Material will adhere to eyes and skin. Contents under pressure. Extremely flammable. Do not apply direct heat to the cans. Before using, remove ignition sources such as flames or equipment / tools that generate sparks. Store in a cool dry place. Do not store in direct sunlight. Keep from freezing. Store between 60° and 80° F. Always wash thoroughly after handling chemical products. For industrial use only. Keep out of reach of children. Follow label / use instructions
<b>Spill Procedures:</b>	Wear appropriate personal protective equipment. CF 512 filling foam will polymerize (cure) upon contact with air/moisture. Allow product to cure, then remove for disposal. See disposal guidelines below.

## REGULATORY INFORMATION

<b>TSCA Inventory Status:</b>	Chemical components listed on TSCA inventory.
<b>SARA Title III, Section 313:</b>	This product contains < 10% 4, 4' diphenylmethane diisocyanate (CAS# 101-68-8) and Polymeric MDI (CAS# 9016-87-9) which are subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).
<b>DOT Shipping Name:</b>	Consumer Commodity, ORM-D.
<b>IATA / ICAO Shipping Name:</b>	Aerosols, Class 2.1, UN 1950
<b>HMIS Codes:</b>	Health 2, Flammability 3, Reactivity 1, PPE B (Goggles, Gloves)
<b>EPA Waste Code(s):</b>	D003 (for aerosol cans) / not regulated if product has been dispensed and has cured
<b>Waste Disposal Methods:</b>	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.

## CONTACTS

<b>Customer Service:</b>	1 800 879 8000	<b>Technical Service:</b>	1 800 879 8000
<b>Health / Safety:</b>	1 800 879 6000	Jerry Metcalf	(x1003704)
<b>Emergency # (Chem-Trec):</b>	1 800 424 9300 (USA, PR, Virgin Islands, Canada); 703 527 3887 (Other countries)		

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