

MSDS No.: **Revision No.: Revision Date:** Page:

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MATERIAL SAFETY DATA SHEET

Product name: **CF-AS CJP Insulating Foam**

Polyurethane Foam Description:

Supplier: Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121

1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries) Emergency # (Chem-Trec.):

INGREDIENTS AND EXPOSURE LIMITS

Ingredients:	CAS Number:	PEL:	TLV:	STEL:
Dimethyl ether	115-10-6	NE	NE	NE
Polymeric diphenylmethane diisocyantate	9016-87-9	NE	NE	NE
Isobutane	75-28-5	NE	1000 ppm	NE
Propane	074-98-6	1000 ppm	1000 ppm	NE

Abbreviations: PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value.

STEL = Short Term Exposure Limit. C = Ceiling. NE = None Established. NA = Not Applicable

PHYSICAL DATA

Mild. Appearance: Orange liquid. Odor:

Vapor Density: (air = 1) Not determined. **Vapor Pressure:** Not determined.

Boiling Point: Not determined. **VOC Content:** 0.12 g/l **Evaporation Rate:** Not determined. **Solubility in Water:** Not soluble. Specific Gravity: Not determined. Not determined. pH:

FIRE AND EXPLOSION HAZARD DATA

0.4 - 32%Flash Point: Flammable Gas Flammable Limits:

Extinguishing Media: C0₂, Dry Chemical, Foam, Water

Special Fire Fighting Proc. None known for cured foam. Uncured isocyanates react with water to release CO₂.

Unusual Fire and Explosion Extremely flammable. Contains flammable propellants under pressure. Aerosol cans exposed to

fire or direct heat can rupture from pressure build-up. **Hazards:**

REACTIVITY DATA

Reacts with alcohols, amines, aqueous acids, and alkalis. Reacts with water (moisture) producing Stability:

CO₂. I

Will not occur. Reacts with water (nonviolently). **Hazardous Polymerization:**

Decomposition Products: Thermal decomposition can yield CO, CO₂, HCN, HCl, HBrNO_x

Conditions to Avoid: Temperature extremes will shorten product shelf life; i.e. below 41° F / above 77° F.

HEALTH HAZARD DATA

Acute: Eye, skin, and respiratory irritation. Chronic: Respiratory and skin sensitization **Known Hazards:**

Signs and Symptoms of Eyes: Can adhere to cornea. Skin: Can adhere to the skin. Can cause irritation and possibly

sensitization; e.g. itching, swelling, rashes, etc. **Inhalation:** 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. **Ingestion:** Effects of ingestion have not been determined. Not a likely route of exposure.

Routes of Exposure: Inhalation. Contact.

Exposure:

No ingredients are classified as a carcinogen by IARC, NTP or OSHA. **Carcinogenicity:**

Medical Conditions Eye, skin, and respiratory conditions. Aggravated by Exposure:

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Immediately flush with large amounts of clean water and seek medical attention.

Skin: Wipe off skin immediately with soft cloth. Cured foam can only be removed mechanically. Contact

a physician if symptoms occur.

Should symptoms occur, immediately move to fresh air. Call a physician if symptoms persist. Inhalation:

Those individuals who develop an allergic reaction should avoid future use of this product.

Ingestion: Seek medical attention immediately. Do not induce vomiting unless directed by a physician.

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

Eye Protection: Goggles recommended; safety glasses with side shields as a minimum.

Impermeable gloves are recommended. Wear other protective clothing as required to prevent **Skin Protection:**

contact with skin.

Respiratory Protection: Not normally required.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing 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 **Precautions:**

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 41° and 77° F. Always wash thoroughly after handling chemical products. For industrial use only. Keep out of

reach of children. Follow label / use instructions.

Wear appropriate personal protective equipment. CF-AS CJP foam will polymerize (cure) upon **Spill Procedures:**

contact with air/moisture. Allow product to cure, then remove for disposal. See disposal

guidelines below.

REGULATORY INFORMATION

Chemical components listed on TSCA inventory. **TSCA Inventory Status:**

This product contains >25% Polymeric diphenylmethane diisocyantate (CAS # 9016-87-9) which is subject to reporting under Section 313 of SARA Title III (40 CFR Part 372). (Technical note: MDI **SARA Title III, Section 313:**

is not available in cured foam due to reaction of foam upon exposure to air; i.e. when released

from the can)

DOT Shipping Name: Limited Quantity - LQ

IATA / ICAO Shipping Name: Aerosols, flammable, Class 2.1, UN 1950

HMIS Codes: Health 2, Flammability 3, Reactivity 1, PPE B (Goggles, Gloves)

EPA Waste Code(s): D001,D003 (for aerosol cans)

Waste Disposal Methods: Consult with regulatory agencies or your corporate personnel for disposal methods that comply

with local, state, and federal safety, health and environmental regulations.

Hazard Communication This MSDS has been prepared in accordance with the Federal OSHA Hazard Communication

Standard, 29 CFR1910,1200.

CONTACTS

1 800 879 8000 **Customer Service:** 1 800 879 8000 **Technical Service:**

Health / Safety: 1 800 879 6000 Jerry Metcalf (x1003704)

1 800 424 9300 (USA, PR, Virgin Islands, Canada); 703 527 3887 (other countries) **Emergency # (Chem-Trec):**

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.