



MSDS No.: 272
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MATERIAL SAFETY DATA SHEET

Product name: CP 620 Fire Foam
Description: Two-component polyurethane fire stopping foam in a plastic tube / cartridge
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:	TLV:	PEL:	STEL:
Part A:				
Amino, polyester and propoxylated polyols	Mixture	NE	NE	NE
Polyester polyol	025038-59-9	NE	NE	NE
Graphite, expanded	012777-87-6	NE	NE	NE
Ammonium polyphosphate	068333-79-9	NE	NE	NE
Brominated polyester polyol	Mixture	NE	NE	NE
Zinc borate	138265-88-0	NE	NE	NE
Catalyst	083016-70-0	NE	NE	NE
Pigment	001309-37-1	NA (5 mg/m ³ *)	NA (10 mg/m ³ *)	NE
Part B:				
Polymeric diphenylmethane diisocyanate	009016-87-9	0.005 ppm **	C: 0.02 **	NE
Tris(2-chloroisopropyl) phosphate	013674-84-5	NE	NE	NE

Abbreviations: NE = None Established. NA = Not Applicable. * Only relevant for dusts and fumes. ** Exposure limit for MDI that may be present in trace amounts as a residual monomer.

PHYSICAL DATA

Appearance:	Red liquid / foam	Odor:	Negligible
Vapor Density: (air = 1)	Not determined	Vapor Pressure:	Not determined
Boiling Point:	Not determined	VOC Content:	15.0 g/L
Evaporation Rate:	Not applicable	Solubility in Water:	Insoluble
Specific Gravity:	1.2 – 1.4	pH:	Not determined

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Not applicable	Flammable Limits:	Not applicable
Extinguishing Media:	Carbon Dioxide, Dry Chemical, Foam		
Special Fire Fighting Procedures:	Isocyanates are not compatible with water. Reaction with water liberates CO ₂ , which can cause the tubes / cartridges to leak.		
Unusual Fire and Explosion Hazards:	Thermal decomposition products can be released. See below.		

REACTIVITY DATA

Stability:	Stable.	Hazardous Polymerization:	Will not occur.
Incompatibility:	Alcohols, strong bases, alkali metal compounds. Reacts with water (nonviolently).		
Decomposition Products:	Thermal decomposition can yield CO, CO ₂ , HCl, HBr, HCN, and NO _x .		
Conditions to Avoid:	Temperature extremes will shorten product shelf life; i.e. below freezing / above 100° F. Exposure to water and high humidity will cause the product to polymerize (cure).		

HEALTH HAZARD DATA

Known Hazards:	Acute: Eye, skin, and respiratory irritation. Chronic: Sensitization
Signs and Symptoms of Exposure:	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 generated when heated to temperatures > 100° F can cause irritation of the breathing tract. Some individuals can develop an allergic (asthmatic-like) response. Ingestion: Effects of ingestion have not been determined. Not a likely route of exposure.
Routes of Exposure:	Dermal. Inhalation.
Carcinogenicity:	No ingredients are classified as a carcinogen by IARC, NTP or OSHA.
Medical Conditions Aggravated by Exposure:	Eye, skin, and respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Immediately flush with large amounts of clean water and seek medical attention.
Skin:	Wash immediately with soap and warm water. Do not allow material to harden / cure on the skin since it may be difficult to remove. If material has hardened, use Hilti MC 400 Hand Cleaner to remove. If still unable to remove, buff off with a pumice stone.
Inhalation:	Move victim to fresh air. Call a physician if symptoms persist.
Ingestion:	Seek medical attention. Do not induce vomiting unless directed to 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 use / contact should be avoided.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:	General (natural or mechanically induced fresh air movements).
Eye Protection:	Goggles recommended; safety glasses with side shields as a minimum.
Skin Protection:	Cotton gloves are suitable.
Respiratory Protection:	Not normally required. If MDI concentrations exceed recommended levels, a supplied air respirator is required.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing Precautions:	Avoid contact. Material will adhere to the skin. Use with adequate ventilation. Store in a cool dry place. Do not store in direct sunlight. Keep from freezing. Store between 50° and 90° F. Always wash thoroughly after handling chemical products. For industrial use only. Keep out of reach of children. Follow label and use instructions.
Spill Procedures:	Wear appropriate personal protective equipment. CP 620 will polymerize (cure) upon contact with air / moisture. Allow product to cure, then remove for 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 2, Flammability 0, Reactivity 1, PPE B (Gloves, Glasses)
DOT Shipping Name:	Not regulated
IATA Shipping Name:	Not regulated
TSCA Inventory Status:	Chemical components listed on TSCA inventory.
SARA Title III, Section 313:	Part A contains 3 - 4% zinc borate (Re: zinc compounds) and Part B contains 88 – 92% polymeric MDI (CAS 9016-87-9) which are subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).
EPA Waste Code(s):	D003 water reactive (for uncured product) / not regulated if product has been dispensed and has cured
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.

CONTACTS

Customer Service:	1 800 879 8000	Technical Service:	1 800 879 8000
Health / Safety:	1 800 879 6000	Jerry Metcalf	(x6704)
Emergency # (Chem-Trec):	1 800 424 9300 (USA, PR, Virgin Islands, Canada); 703 527 3887 (Other countries)		

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