

Material Safety Data Sheet

CT-7451-1

2/21/12

Section 1 - Chemical Product and Company Identification

Product Name: CT-7451-1

Product Description: Fluorocarbon elastomer

Chemical Formula: (C₂H₂F₂)_x(C₃F₆)_y(C₂F₄)_z

Manufacturer: Cri-Tech, Inc., 85 Winter Street, Hanover, MA 02339
Tel.: (781) 826-5600, Fax: (781) 826-5770 (Mon. thru Fri., 8 am. to 5 pm.)

EMERGENCY CONTACT: TECHNICAL MANAGER

TELEPHONE NO: (800) 826-5699

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
Fluorocarbon Polymer	25190-89-0	90 - 100
Bisphenol AF	1478-61-1	0 - 10

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Potential Health Effects

Primary Entry Routes:

Inhalation: Vapors of material heated during normal processing or fabrication may cause respiratory system irritation. Vapors released due to overheating or combustion may be harmful if inhaled.

Eye Contact: During normal processing or fabrication, vapors from heated material may cause eye irritation.

Skin Contact: Contact with the skin during normal product use is not expected to result in significant irritation.

Ingestion: Not an expected exposure route. Ingestion may cause abdominal pain, nausea and vomiting.

Carcinogenicity: IARC, NTP, and OSHA do not list this product as a carcinogen.

Section 4 - First Aid Measures

Inhalation: Remove person to fresh air. If signs/symptoms continue, call a physician.

Eye Contact: Immediately flush eyes with large amounts of water. If irritation persists, seek medical attention.

Skin Contact: Flush skin with large amounts of water. If irritation persists, get medical attention.

Ingestion: If conscious, drink three to four 8-ounce glasses of water. Immediately contact a physician. If unconscious, immediately take the affected person to hospital. Never give anything by mouth to an unconscious person.

Section 5 - Fire-Fighting Measures

Flash Point: N/A

Flash Point Method: N/A

Autoignition Temperature: N/A

LEL: N/A

UEL: N/A

Extinguishing Media: Water spray, CO₂, Foam, Dry chemicals

Unusual Fire or Explosion Hazards: No unusual fire or explosion hazards are expected.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, hydrogen fluoride, toxic vapors, gases and particles may be formed.

Fire-Fighting Equipment: Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Use personal protective equipment as indicated in Section 8. Shovel or sweep up spilled material.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Disposal: Dispose of per state and local environmental regulations.

Section 7 - Handling and Storage

Handling Precautions: Wear proper personal protective equipment as indicated in section 8.

Avoid eye contact with dust and airborne particles.

Avoid skin contact with hot material.

After use, wash hands thoroughly with soap and water.

Do not eat, drink or smoke while using this product.

Wash clothing after use.

Storage Requirements: Store away from heat. Keep container closed when not in use.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Use in a well ventilated area. If exhaust ventilation is not adequate, use appropriate respiratory protection.

Personal Protective Equipment:

Respiratory Protection: Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations (29CFR 1910.134): half mask supplied air respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear protective gloves and clothing.

Eye & Face Protection: Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Color: Neutral

Odor: None

Specific Gravity (H₂O = 1 @ 4°C): 1.8 – 2.1

Vapor Pressure: N/A

Vapor Density (Air = 1) : N/A

Water Solubility: Insoluble

pH: Not applicable

Melting Point: Not applicable

Boiling Point: Not applicable

% Volatile: nil

Evaporation Rate: none

Section 10 - Stability and Reactivity

Stability: Product is stable at room temperature under normal storage and handling conditions.

Hazardous Polymerization: Will not occur.

Chemical Incompatibilities: Al and Mg powders

Conditions to Avoid: Do not heat above 400°C (752°F) and avoid high shear and temperature conditions.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrogen fluoride, perfluorobutylene (PFIB), toxic vapors, gases and particulates.

Section 11 – Toxicological Information

Exposure to fumes generated during the processing of fluoropolymers can cause an influenza-like condition called “polymer fume fever.” Symptoms include fever, chills, chest pains, shortness of breath, and coughing. Symptoms do not necessarily occur at the time of exposure, but may be delayed passing in 48 to 72 hours. Inhalation of smoke from tobacco contaminated with fluoropolymers can also cause “polymer fume fever.” Limit worker exposure to fumes generated during fluoropolymer processing. Prohibit smoking in areas where fluoropolymers are used and stored.

Section 12 - Ecological Information

Aquatic Toxicity: Not determined

Chemical Fate Information: Not determined

Section 13 - Disposal Considerations

Disposal: Storage, transportation and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

Section 14 - Transport Information

DOT (49 CFR 172.101): Not regulated

IATA: Not regulated

IMDG: Not regulated

Ship per local State DOT, and Federal Guidelines and Regulations

Section 15 – Regulatory Information

EPA Regulations:

SARA 311 / 312 Hazard Categories: Fire – No, Reactivity – No, Immediate – Yes, Delayed – No

Hazard Class: Not regulated

This product contains no known toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of CFR 372.

Chemical Inventories:

United States (TSCA) All components are listed

Canada (DSL) All components are listed

Section 16 - Other Information

NFPA Hazard Classification: Health: 1 Flammability: 0 Reactivity: 0 Special Hazards: None

HMIS® Hazard Classification: Health: 1 Flammability: 0 Reactivity: 0 Protection: X

HMIS® ratings are to be used with a fully implemented HMIS program.

HMIS® is a registered trademark of the National Paint and Coatings Association.

This product is not designed, manufactured or intended for medical uses, including implantation to the body or direct contact with body fluids and tissue. For industrial use only

Prepared By: Cri-Tech, Inc., 85 Winter Street, Hanover, MA 02339

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