



# SAFETY DATA SHEET DAI-EL G-EXP-021

#### **SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION DAIKIN TRADE NAME:** DAI-EL G-EXP-021 FEATURE AND APPLICATION: Elastomer, heat and chemical resistant, for O-rings, seals and hose **COMPANY:** Manufacturer Cri-Tech. Inc. **85 Winter Street** Hanover, MA 02339 Supplier Daikin America, Inc. **20 Olympic Drive** Orangeburg, New York 10962 Chemtrec: 1-800-424-9300 **EMERGENCY PHONE:** Outside US/Canada: 1-703-527-3887 **PRODUCT INFORMATION:** 1-800-365-9570 (9 am to 5 pm Eastern Standard Time) **SECTION 2: HAZARD IDENTIFICATION GHS CLASSIFICATION:** Substance is not classified according to the Globally Harmonized System. Substance is not classified according to the Occupational Safety and Health Administration Communication Standard 29 CFR 1910.1200. **GHS LABEL REQUIREMENTS:** Symbol -None Signal Word -None Hazard Statement(s) -None **Precautionary Statement(s) - None OTHER HAZARDS:** Hazardous decomposition products including hydrogen fluoride and other toxic fluorinated compounds may be formed at high temperatures and during combustion. Inhalation of these compounds may result in serious lung irritation. Excessive exposure could result in delayed pulmonary edema in some cases, and on very high exposure, damage to the liver and kidneys.

SECTION 3: INFORMATION ON INGREDIENTS			
COMPONENT	CAS NO.	Wt%	
Fluoroelastomer	9011-17-0	Trade Secret	
<b>Bisphenol AF</b>	1478-61-1	Trade Secret	

# SECTION 4. FIRST AID MEASURES

**INGESTION:** Consult a physician immediately.

EYE CONTACT:Flush with large amounts of water for 10-15 minutes. Consult a physician if needed.SKIN CONTACT:Wash affected area with soap and water. Remove contaminated clothing and shoes. DO NOT ATTEMPT<br/>TO REMOVE MOLTEN MATERIAL. Immediately flush affected area with cold water and cover with a<br/>clean dressing. Have burn treated by a physician.

**INHALATION:** Leave the contaminated area and seek fresh air. If breathing is difficult, contact a physician.

SECTION 5. FIRE FIGHTING MEASURES	
EXTINGUISHING MEDIA:	Alcohol foam, CO2, or dry chemical
PROTECTIVE EQUIPMENT:	Use NIOSH/MSHA approved SCBA and bunker gear. Evolution of acidic gases may require complete wash down of protective clothing prior to removal.
HAZARDOUS COMBUSTION PRODUCTS:	In case of fire or if processing at high temperatures, toxic gases including hydrofluoric acid, perfluoroisobutylene, and carbonyl fluoride may be formed.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Ensure cleanup is done only by trained personnel wearing appropriate personal protective equipment. Collect spilled material in a container and seal.

### **SECTION 7. HANDLING & STORAGE**

### HANDLING

Follow safe industrial hygiene practices and wear proper protective equipment.

Use only in well ventilated areas.

Wash hands thoroughly after handling.

Wash clothing after use.

Avoid contact with skin or eyes.

Do not breathe vapor or spray.

Do not store or consume food, drink, or tobacco in areas where they may become contaminated with this material.

If smoking tobacco becomes contaminated by this material, exposure to toxic gases through inhalation can occur. Therefore, do not smoke in the work areas and wash hands and face after handling in order to avoid transfer of material onto tobacco.

### STORAGE

Keep away from heat, steam, sunlight, sparks, and open flame. Store containers tightly closed when not in use.

### SECTION 8. EXPOSURE CONTROLS & PERSONAL PROTECTIVE EQUIPMENT

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EXPOSURE LIMITS:	No exposure limits available for the product.
	Excessive exposure to thermal degradation products could result in delayed pulmonary edema in some cases, and on very high exposure, damage to the liver and kidneys. These substances may include: perfluoroisobutylene (TLV = $0.01$ ppm Ceiling), carbonyl fluoride (TLV = $2$ ppm TWA, $5$ ppm STEL), hydrogen fluoride (TLV = $2$ ppm Ceiling, $0.5$ ppm TWA).
<b>RESPIRATORY PROTECTION:</b>	Use respirator suitable for protection. If material is heated, use a positive pressure air supplied respirator or SCBA.
EYE PROTECTION:	Safety glasses with side shields or goggles.
PROTECTIVE CLOTHING:	Chemical resistant gloves and protective clothing should be worn when handling this material. When heated, wear gloves to prevent thermal burns.
VENTILATION:	Use local exhaust ventilation when molding or curing.
OTHER PROTECTIVE EQUIPMENT:	Eyewash station and safety shower.

# SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

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APPEARANCE:	White to light yellow sheet
ODOR:	Not Applicable
ODOR THRESHOLD:	Not Applicable
pH:	Not Applicable
MELTING POINT:	Not Applicable
BOILING POINT/RANGE:	Not Applicable
FLASH POINT:	Not Applicable
FLAMMABLE LIMITS:	LEL – Not Available
	UEL – Not Available
EVAPORATION RATE (Butyl acetate=1):	Not Applicable
VAPOR PRESSURE:	Not Applicable
VAPOR DENSITY:	Not Applicable
SPECIFIC GRAVITY (H <sub>2</sub> O=1):	1.81 - 1.87 at 25 °C
APPARENT DENSITY:	Not Applicable
SOLUBILITY(IES):	Insoluble in water
	Soluble in ketones, esters, ethers, and perfluoroalkanes
PARTITION COEFFICIENT (n-octanol/water):	Not Applicable
AUTO-IGNITION TEMPERATURE:	Not Available
<b>DECOMPOSITION TEMPERATURE:</b>	Not Available
VISCOSITY:	Not Applicable

# SECTION 10. STABILITY & REACTIVITY STABILITY: Stable under normal temperature and pressure CONDITIONS TO AVOID: Excessive heat, sparks, and open flame

	Stable under normal temperature and pressure
CONDITIONS TO AVOID:	Excessive heat, sparks, and open flame
INCOMPATIBILITIES:	May react with metals, such as sodium, magnesium, aluminum at elevated temperatures (above 425 °C); may react upon prolonged exposure to fluorine or in oxygen-fluorine mixtures at high temperatures and pressures. Contact with incompatible materials may result in fire or explosion.
HAZARDOUS POLYMERIZATION:	Should not occur
HAZARDOUS DECOMPOSITION:	Decomposition or by-products and toxic by-products including carbon monoxide, carbon dioxide, hydrofluoric acid, perfluoroisobutylene, and carbonyl fluoride may be formed at very high temperatures.

# SECTION 11. TOXICOLOGICAL INFORMATION

### ACUTE EFFECTS OF EXPOSURE

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	Ingestion:	May be harmful if swalle	owed.
	Eye Contact:	May cause mild irritation	n.
	Skin Contact:	May cause skin irritation	n.
	Inhalation:	May cause respiratory in	ritation.
(	CHRONIC EFFECTS (	OF EXPOSURE:	No Data Available
	ACUTE TOXICITY:		No Data Available
5	SKIN CORROSION/IR	RITATION:	No Data Available
;	SERIOUS EYE DAMA	<b>GE/IRRITATION:</b>	No Data Available
]	RESPIRATORY OR S	KIN SENSITIZATION:	No Data Available
(	GERM CELL MUTAG	ENICITY:	No Data Available
(	CARCINOGENICITY:		None of the components in this material are listed by NTP, OSHA, or IARC.
]	REPRODUCTIVE TOX	AICITY:	No Data Available
	STOT-SINGLE EXPOS		No Data Available
1	STOT-REPEATED EX	POSURE:	No Data Available
	ASPIRATION HAZAR	D:	Not Applicable

### **BIODEGRADABILITY:**

Ecotoxicity is expected to be low based on near zero water solubility of the polymer. Material is considered inert and not expected to be biodegradable or toxic.

**BIOACCUMULATION:** 

### **SECTION 13. DISPOSAL CONSIDERATIONS**

No data

Comply with Federal, State and Local regulations concerning health and environment when disposing of materials. Regulations may also apply to empty containers, liners, or rinsate. DO NOT INCINERATE unless incinerator is capable of scrubbing hydrogen fluoride and other acidic combustion products.

### **SECTION 14. TRANSPORT INFORMATION**

UN CLASSIFICATION:	Not applicable
DOT HAZARD DESCRIPTION:	Not applicable
CANADIAN TRANSPORTATION OF	
DANGEROUS GOODS (TDG):	Not applicable

### **SECTION 15. REGULATORY INFORMATION**

TSCA:	All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory.
<b>OTHER COUNTRIES:</b>	The fluoropolymer of this product is listed on the chemical inventories of the following countries: Canadian DSL, Australia AICS, Korea ECL, Japan ENCS, Philippine PICCS
Other:	State and local regulations may have specific requirements for this product or components of this product; consult specific state and local regulatory requirements for additional information.

### **SECTION 16. OTHER INFORMATION**

For additional information, refer to the American Conference of Governmental Industrial Hygienists (ACGIH) documentation of TLV's (Threshold Limit Values) for individual components, Fluoropolymers Safe Handling Guide published by The Society of the Plastics Industry, and the DOT Emergency Response Guidebook.

This product is not designed, manufactured, or intended for medical uses, including implantation to the body or other applications in direct contact with body fluids or tissues. Do not use for non-industrial applications.

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