



# Material Safety Data Sheet

January 2008

## I. General Information

Chemical Name & Synonyms:	Fluorelastomer	Trade Name:	01104 Viton Adhesive
Chemical Family:	Adhesive Rubber	Formula:	Proprietary
Proper DOT Shipping Name:	Aerosol, Flammable	DOT Hazard Classification:	1950 Flammable Gas 2.1
Distributor:	Brooks Tech, Inc	Distributor Phone Number:	410-560-6122
Distributors Address:	FAX: 410-560-6125		
	56 Blondell Court		
	Timonium, MD 21093		

## II. Ingredients

Principal Hazardous Components	Percent	Threshold Limit Value (units)	Vapor Pressure/Weight
Acetone (2-PROPANE) 67-64-1 1000PPM	750PPM	182.0 68F	54
Dichloromethane (Methylene Chloride) 75-09-2 500PPMTWA	50PPM TWA N/A	350.0 68F	14.9
Propane 74-98-6	1000PPM	3691.0 68F	10
Isobutane 75-28-5	800PPM EST.	3691.0 68F	15
NFPA CLASSIFICATION		HAZARD RATING	
Health - 2	0 - Least	3 - High	
Fire - 4	1 - Slight	4 - High	
Reactivity - 0	2 - Moderate		

## III. Physical Data

Boiling Point (°F)	-44 to 132 Deg F	Specific Gravity (H2O=1)	0.8
Vapor Pressure (mm Hg.)		Percent Volatile by Volume (%)	6.07 LB/GL (727 G/L)
Vapor Density (Air=1)	Heavier than Air	Evaporation Rate	Slower than Ether
Solubility in Water	Slight	PH	N/A
Appearance & Odor	Liquid Under Pressure with a Mild Solvent Odor		

## IV. Fire & Explosion Hazard Data

Flash Point (Test Method)	156 Deg F	Auto Ignition Temperature	
Flammable Limits	In Air by Volume	LEL 1.8%	UEL 19.0%
Extinguishing Media	Foam, Alcohol Foam, CO2, Dry Chemical, Water Fog		

**Special Fire Fighting Procedures** The use of a NIOSH approved self contained breathing apparatus is recommended for fire fighters. Water may be sprayed or sealed containers exposed to heat to keep cool & prevent them from exploding due to pressure buildup

**Unusual Fire & Explosion Hazards** Extremely flammable. Contents under pressure. Containers may burst at temperatures above 130 Deg F. Never pressurize, cut, weld, grind, drill, or expose container to any possible source of spark, flame, or ignition. Vapors are heavier than air & may travel to another area & ignite & flashback to the source of the vapors

\*Viton Trademark EI Dupont

Format based on OSHA Form 20

## V. Health Hazard Data

Threshold Limit Value	OSHA Threshold Limit Value	ACGIH Threshold Limit Value
Carcinogen – NTP Program <b>YES</b>	Carcinogen – IARC Program <b>YES</b>	
<p><b>Symptoms of Exposure:</b> Health Hazards (Acute &amp; Chronic): Acute Toxicity: Headache, dizziness, nausea, loss of consciousness. Chronic (long term overexposure) intentional abuse misuse or other massive exposure may cause multiple organ damage and/or death. EYES: Liquid is severely irritating. SKIN: Mildly irritating, tends to remove skin oils&amp;may cause dermatitis. INGESTION: vomiting. ASPIRATION: pneumonitis &amp; possible nerve &amp; organ damage due to rapid adsorption through the lungs.</p>		
<p><b>Medical Conditions Aggravated by Exposure:</b> Preexisting eye, skin &amp; respiratory conditions my be aggravated</p>		
<p><b>Primary Route (s) of Entry:</b> Inhalation Health Risks and symptoms of exposure: Slurred speech, dizziness, giddiness, &amp; possible loss of consciousness. Minimal effects may be seen in the range of 500-1000ppm; concentrations in excess of 10,000ppm can cause cardiac arrythias, unconsciousness, and death. Skin and Eye Contact Health Risks and Symptoms of Exposure: Skin, Drying &amp; chapping, possible dermatitis. Eyes; Pain &amp; irritation with blurring of vision. Possible slight transient corneal injury. Skin Absorption Health Risks and Symptoms of Exposure: Defatting of tissues, if extensive areas possible pain in areas of sensitive skin &amp; can act as a C.N.S. (Central Nervous System) depressant with slurred speech, dizziness, giddiness, &amp; possible loss of consciousness, may cause dermatitis. Ingestion Health Risks and Symptoms of Exposure: Nausea &amp; vomiting possibly resulting in aspiration with chemical pneumonitis. If aspirated (liquid enters the lungs) it may be rapidly absorbed through the lungs and result in injury to other organs and bodily systems.</p>		
<p><b>Emergency First Aid:</b> Eyes: flush with water for 15 minutes or until irritation subsides. Skin: wash thoroughly with soap &amp; water. Swallowed: Do not induce vomiting. Get immediate medical attention. Physician must weight the danger of possible aspiration against toxic effects when considering emptying the stomach. If breathing difficulties, dizziness, light-headedness or unconsciousness occurs remove to fresh air. Seek medical aid in any emergency. If victim is not breathing give mouth to mouth resuscitation.</p>		

## VI. Reactivity Data

Stability		Unstable	<b>Conditions to Avoid</b> Keep away from hot surfaces, fire, sparks, heat & all sources of ignition.
	<b>X</b>	Stable	
Incompatibility			<b>Materials to Avoid</b> Strong oxidizing agents, alkaline materials, mineral acids & halogens.
Hazardous		May Occur	
Polymerization	<b>X</b>	Will Not Occur	<b>Conditions to Avoid</b>

**Hazardous Decomposition Products:** Toxic & Corrosive Products of decomposition, including halogenated hydrocarbons, can be generated under fire conditions

## VII. Environmental Protection Procedures

**Spill Response:** Remove sources of ignition & provide ventilation with explosion proof equipment. Large spills may be scooped up with non-sparking tools. Small quantities may be picked up with absorbers.

**Waste Disposal Method:** Place in closed containers. Obey all local, state, and federal regulations & all safety precautions in using incineration, or any other means of disposal. Not all other precautions related to this type of product. Keep product out of severe watercourses & extensive land areas. Do not incinerate closed containers or empty sealed containers.

## VIII. Special Protection Information

**Eye Protection:** Chemical protective splash goggles or face shield when there is a chance of contact with the eyes

**Skin Protection:** Protective Gloves: Chemical resistant gloves if needed to prevent prolonged or repeated contact. Check frequently for leaks

**Respiratory Protection (Specific Type):** Depending upon vapor concentrations use NIOSH approved cartridge respirator or supplied-air respirators. If spray mist is present NIOSH & OSHA APPROVED respirators that ensure protection from spray dust & vapors must be worn. Personnel not properly protected should not be in spray areas. Engineering changes may be required to ensure adequate ventilation

**Ventilation Recommended:** Provide greater than 60 feet per minute hood face velocity. Use only with sufficient ventilation with explosion proof equipment to ensure safe T.L.V. levels, in accordance with OSHA regulations 29 CFR part 1910.1200.

**Other Protection:** Use chemical resistant apron or other impervious clothing, if needed to avoid contaminating regular clothing which coul result in prolonged skin contact. Contaminated clothing should be removed at once & dried & laundered before reusing.

## IX. Special Precautions

**Hygienic Practices in Handling & Storage:** Wash hands with soap & water before eating or using lavatory. No smoking in any area where this product is in use.

**Precautions for Repair & Maintenance of Contaminated Equipment:** Keep all containers sealed when not in use. Use grounding & bending during product pumping or pouring to prevent static discharges. Use only explosion proof electrical equipment in areas of use. Store only in cool well ventilated areas that are in compliance with OSHA 1910.106. Do not store or keep at temperatures of 120 Deg F or more.

**Other Precautions:** Do not take internally. Do not use pressure to empty drum. Do not smoke in any area that this product is used in or if there is the possibility that some of this product might be on clothing. It is the users responsibility to determine the suitability of its specific conditions & particular uses for this type of product & to modify such conditions & uses to ensure that they meet all safety requirements & any & all other Federal, Local, & State laws, rules, regulations & requirements

The information & recommendations contained herein are, to the best of our knowledge & belief, accurate & reliable as of the date issue. We do not warrant or guarantee their accuracy or reliability, & We shall not be liable for any loss or damage arising from the use thereof. Users must consider this data in conjunction with all other pertinent information