CiDRA	*SONARtrac*® Technical Bulletin	
	Subject: Use of Teflon Joint Sealant on Sensor Covers	No:TB002
		Priority: 5
		Date: 15 Jul 04

PCO# PO4-0022 calls for the use of CiDRA Corporation Part Number 52307-01 *Sealant, Pipe & Thread, PTFE Paste* on the Teflon seal on fiberglass covers. The sealant acts as a lubricant during initial installation of the cover, and also acts as a secondary seal against moisture entering the cover. The upper and lower cover seals are lightly coated with the sealant just before installation of the process pipe.

All fiberglass covers being shipped from CiDRA will have the sealant enclosed as part of the installation kit. Use of the sealant will be documented in the next revision of the P/N 20295-01 Sensor Installation Manual.

The sealant, manufactured by Fluoramics, Inc. of Mayway, New Jersey, is called “Formula-8 with Teflon Joint & Thread PTFE PASTE SEALER”. It is available through McMaster Carr as their Part Number 4538K1. Additional information on this sealant is available at the following website: www.tufoil.com/form8.html .

A Material Safety Data Sheet for the sealant is part of this bulletin.

Please contact CiDRA Customer Support at 203-265-0035 or customersupport@cidra.com for further information.

Priority Code:			
1	Safety issue or system will not function	2	Intermittent problem causing system crash
3	Erratic data/readings	4	Added product feature
5	Product enhancement		

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MATERIAL SAFETY DATA SHEET

IDENTITY: FORMULA-8
(Oxygen Compatible)

Chemical name: Aqueous Paste & Filler of PTFE
Chemical family: Perfluorocarbon Polymer
Formula: $(CF)\ 2^n$

MANUFACTURER: Fluoramics Inc.
ADDRESS: 18 Industrial Avenue
Mahwah, N.J. 07430
PHONE: 201-825-8110

DATE PREPARED: January, 2003
PREPARED BY: F.G. Reick,

President

CAS NUMBERS:

H_2O (water): No CAS number
Carboxy Vinyl Polymer: 9003 01 4
Polytetrafluoroethylene Powder: 9002 84 0
Polytetrafluoroethylene Aqueous Dispersion: 9002 84 0
TI 02 Titaniumdioxide: 13463 67 7
Monoethanolamine: 141 43 5

SECTION 1 - COMPONENTS

COMPONENTS	%	ACHIH - TLV
Carbopol	5	
Pigments	20	$Ti0^2$
Vehicle	14	Water
Surfactants - Triton 100	1	
Teflon (PTFE) T30**	59	
Colloidal Silica	1	
**Inert to oxygen, non-combustible, odorless, no known dangerous mixtures		

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point: 212º (water)
Vapor Pressure: less than 0.01
Vapor Density: N/A
Solubility in Water: Dispersible

Specific Gravity H_2O=1): 1.2
Melting Point: N/A
Evaporation Rate (butyl acetate=1): H_2O slow
Water Dispersable
Appearance and Odor: White paste - odorless

SECTION 3 - FIRE & EXPLOSION HAZARD DATA

Flash Point & Method Used: None
Flammability Limits in Air % by Volume: Non-combustible

Extinguisher Media: Incombustible
Special Fire Fighting Procedures: None
Unusual fire and Explosion Hazards: In extreme fire situation, protection from hydrogen fluoride fumes should be employed

	NFPA CODES	HMIS CODES
HEALTH	1	1
FLAMMABILITY	0	0
REACTIVITY	0	0
PERSONAL PROTECTION	SCBA	B

SECTION 4 - REACTIVITY HAZARD DATA

Stability: Stable
Conditions to Avoid: Temperature above 250º without adequate ventilation. Will not polymerize.
Incompatability (Materials to Avoid): Strong alkali
Hazardous Decomposition Products: At 650ºC (1202º), COF_2 is the principal toxic product. At above 650ºC, major products are CF_4 and CO_2.
Hazardous Polymerization: Will not occur

SECTION 5 - HEALTH HAZARD DATA

Primary Routes of Entry: Inhalation - Skin - Ingestion
Health Hazards: Treat symptomatically
Signs and Symptoms of Exposure: PTFE polymer, when thermally decomposed, may cause polymer fume fever and flu-like symptoms.
Medical Conditions Generally Aggravated by Exposure: See below
Eye Contact: Wash with copious amounts of water.
Skin Contact: Remove by wiping and wash with soap and water
Inhalation: Remove to fresh air
Ingestion: contact a physician
Emergency First Aid Procedures: Call a physician.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type): If exposed to high temperature processing fumes, wear self-contained breathing apparatus.
Protective Gloves: Yes
Eye Protection: Goggles if contact is probable

Ventilation to be Used: Local exhaust preferred; General (mechanical), usually none
Other Protective Clothing and Equipment: Protective garment when applicable
Hygienic Work Practices: As indicated

SECTION 7
PRECAUTIONS FOR SAFE HANDLING AND USE
LEAK PROCEDURES

Steps to be Taken if Material is Spilled or Released: N/A
Waste Disposal Methods: Land fill is preferred but disposal methods must conform with local state and federal regulations.
Precautions to be Taken in Handling and Storage: Strictly enforce NO SMOKING rule for workers handling material.
Other Precautions and/or Special Hazards: Use normal personal hygiene and good housekeeping.