

**Section 1. Product and Company Identification**

**Product Name:** F-250  
**Supplier:** NRI 3875 Fiscal Court, Ste #100 Riviera Beach, FL 33404 (561) 683-6992  
**Emergency Phone Number:** 800-535-5053  
**Product Description:** Black Fibrous Sealant / packing  
**Product Use:** Injectable Sealant  
**Chemical Name or Synonym:** N/A

**Section 2. Hazards Identification**

**Classification of the substance or mixture:**

Skin corrosion/irritation – Category 2  
Eye damage/irritation – Category 2B  
Acute toxicity / Inhalation - Category 5  
Acute toxicity / Oral - Category 5  
STOT / SE – Category 3  
Carcinogenicity – Category 1

**Label Elements:**



**Hazard Statements:**

H315 / 320 Causes Skin and Eye Irritation  
H333 May be harmful if inhaled  
H303 May be harmful if swallowed  
H335 May cause respiratory irritation  
H350 May cause cancer

**Signal Word:** Danger

**Precautionary Statement:**

P261 Avoid breathing dust/vapors  
P262 Do not get in eyes, on skin, or on clothing  
P285 In case of inadequate ventilation wear respiratory protection  
P281 Use personal protective equipment as required  
P301/P330/P331 If swallowed: Rinse mouth, Do NOT induce vomiting.  
P301/P310 If Swallowed: Immediately call a Poison Center or Physician  
P333/P313 If skin irritation or rash develops: Get medical attention.  
P302/P352 If on skin: Wash with plenty of soap and water  
P305/P351/P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue Rinsing.  
P337/P313 If eye irritation persists: Get medical attention  
P342/P311 If experiencing respiratory symptoms: Get medical attention.  
P233 Keep container tightly closed  
P210 Keep away from open flames. – No Smoking  
P501 Dispose of observing all Federal, State and Local regulations.

**Section 3. Composition/ Information on Ingredients**

Chemical Name	CAS-No	Weight %
Solvent mixture	64742-47-8	1 – 20
Aluminosilicate	142844-00-6	1 – 20
Crystalline silica	None	< 5
Natural graphite	7782-42-5	1 – 20
Modified natural resins	Proprietary	20 – 50

**Section 4.**

**First Aid Measures for Accidental:**

**Ingestion:** DO NOT INGEST. Oral toxicity not determined. Do NOT induce vomiting. Even small amount of solvent aspirated into the lungs during ingestion or vomiting may cause aspiration pneumonitis. Call a physician or get medical help immediately.

**Inhalation:** Remove to fresh air. If symptoms persist, seek medical attention.

**Skin Contact:** Wash with soap and water, consult physician if rash develops.

**Eye Contact:** Flush with water 15 minutes. If symptoms persist, seek medical attention.

**Most important symptoms/effects, acute and delayed:** No data available

**Indication of immediate medical attention and special treatment needed:** No data available

**Section 5. Fire Fighting Measures**

**Extinguishing Media:** Foam, Dry Chemical, Carbon Dioxide, Water fog.

**Special Fire Fighting Procedures:** Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. (Professionally Trained Personnel).

**Unusual Fire and Explosion Hazard:** Closed containers may rupture when exposed to extreme heat or fire conditions.

**Hazardous Decomposition Materials (Under Fire Conditions):** CO, CO<sub>2</sub>, H<sub>2</sub>S, SO<sub>2</sub>, smoke, Incomplete combustion products.

**Section 6. Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear proper personal protective equipment. Remove any sources of ignition from the area and allow hot surfaces to cool.

**Cleanup and Disposal of Spill:** Return contaminated material to metal container and seal container tightly. Dispose of contaminated material or waste. Clean up with mineral spirits.

**Section 7. Handling and Storage**

**Precautions for Safe Handling:** Avoid contact with skin and eyes. Do not breathe vapors. This product in its purchased form does not create an inhalation hazard from fibers or dust. If grinding or sanding or any other process is performed to this compound will cause airborne particles wear appropriate respirator to avoid breathing any dust or vapors. Wear appropriate safety gear as required in work area.

**Conditions for safe storage including any incompatibilities:** Cool, dry, storage below 90 degrees F. Store in closed containers. Refrigerate for best shelf life.

**Section 8. Exposure Controls / Personal Protection**

**Exposure Guidelines:**

Component	Exposure Limits	
	ACGIH-TLV	OSHA-PELs
Crystalline Silica: Cristobalite Tridymite Quartz	0.05 mg/m <sup>3</sup> (respirable) 0.05 mg/m <sup>3</sup> (respirable) 0.1mg/m <sup>3</sup> (respirable)	0.025 mg/m <sup>3</sup> (respirable) - 0.025 mg/m <sup>3</sup> (respirable)
Solvent mixture	100 ppm TWA	500 ppm TWA
Aluminosilicate (respirable ceramic fibers)	0.1 f/cc TLV, 8hr, TWA	0.5 f/cc, 8 hr. TWA (manufacturer recommendation)
Natural graphite	2.0 mg/m <sup>3</sup> TWA (respirable dust)	3mg/m <sup>3</sup> for nuisance dust
Modified natural resins	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>

**Appropriate Engineering Controls:** Local exhaust if poorly ventilated area or in confined spaces. Ventilation should be provided during heat up to exhaust organic vapors resulting from vaporization of certain organic agents.

**Personal Protective Equipment:**

**Respiratory Protection:** NIOSH approved for organic vapors and dust.

**Eye / Face Protection:** Safety Glasses with side shields. Full face shield recommended. (during injection process).

**Skin Protection:** Chemical resistant impervious gloves. Coveralls or other protective clothing.

**Additional protective measures:** Avoid contact with skin. Wash hands before eating, smoking or using the lavatory. Appropriate techniques should be used for removal of potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

**Section 9. Physical and Chemical Properties**

<b>Physical Appearance:</b>	Brown putty-like compound
<b>Odor:</b>	Solvent like
<b>Odor Threshold:</b>	No data available
<b>pH:</b>	5.2
<b>Flash Point:</b>	> 219 °F Method Cleveland Open Cup
<b>Melting Point Range:</b>	Not applicable
<b>Boiling point:</b>	Not applicable
<b>Evaporation rate:</b>	Not applicable
<b>Flammability (solid, gas):</b>	No data available
<b>Flammability Limits:</b>	Not established
<b>Viscosity:</b>	No data available
<b>Water Solubility:</b>	NIL
<b>Solubility in other Solvents:</b>	No data available
<b>Vapor Pressure:</b>	Solvent only, mixture not tested: 0.6 kPa (2.2 mm Hg) at 20 C
<b>Vapor Density:</b>	Solvent only, mixture not tested: 5.5 (air =1)
<b>Relative Density:</b>	No data available
<b>Specific Gravity:</b>	1.365 (compressed, uncured) (H <sub>2</sub> O = 1)

<b>Partition Coefficient (n-octanol/water):</b>	No data available
<b>Auto-ignition Temperature:</b>	No data available
<b>Decomposition Temperature:</b>	No data available
<b>VOC Content:</b>	Max 10% by weight

#### Section 10. Stability and Reactivity

**Reactivity:** Stable

**Chemical Stability:** Stable under standard normal conditions.

**Possibility of Hazardous reactions:** None under normal processing. Hazardous polymerization will not occur by itself.

**Conditions to Avoid:** Keep away from heat, hot surfaces, sparks, and flame. Incompatible materials.

**Incompatible Materials / Chemicals:** Strong Oxidizers and Strong Acids, Mineral Acids, Alkalies.

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>, H<sub>2</sub>S, SO<sub>2</sub>, Smoke, Incomplete Combustion Products.

#### Section 11. Toxicological Information

**Numerical measures of toxicity (solvent only, mixture not tested):**

**Inhalation (Solvent):** Low Toxicity: LC50 greater than near-saturated vapor concentration / 1 hour rat

**Skin (Solvent):** Expected to be of Low Toxicity: LD50.2000 mg/kg, Rat mg/kg, rat

**Ingestion: (Solvent):** Expected to be of Low Toxicity: LD50>2000 mg/kg, rat

**Primary routes of entry:** Inhalation and contact

**Information in the likely route of exposure**

**Potential Acute Health Effects:**

**Skin:** Contact on bare skin can cause chemical dermatitis, redness, itching

**Inhalation:** Breathing excessive vapors may cause dizziness or headaches irritation of eyes, nose, throat, lungs and can cause central nervous system depression.

**Chronic Health Hazard:**

**Inhalation:** Crystalline Silica, respirable size NTP Known Carcinogen.

Ceramic Fibers, NTP Reasonably Anticipated to be a Carcinogen.

Repeated exposure to solvent vapors above recommended exposure limits, can cause central nervous system effects, drowsiness, dizziness and headaches. (Wear recommended respirator if exceeding permissible exposure limit, see section 8)

**Carcinogenicity**

**NTP:** Crystalline Silica (respirable size) Known to be a Carcinogen

Ceramic Fibers, (respirable size) Reasonably Anticipated to be a Carcinogen

**IARC:** Crystalline Silica, Group 1 IARC

Ceramic Fibers, (respirable size) 2B

**OSHA Regulated:** NO

**Symptoms related to the physical, chemical and toxicological characteristics:**

**Eye contact:** Redness and irritation.

**Skin contact:** Chemical dermatitis, redness and itching.

**Inhalation:** Possible dizziness or headaches, respiratory irritation.

**Existing Conditions Aggravated by Exposure:** Pre-existing skin condition if prolonged exposure to skin. (Wear chemical resistant gloves) Respiratory disorders, asthma, chronic emphysema, heart condition (if prolonged and continuous exposure to dust or vapors). Dust exposure is not a hazard with this product under normal use. Product is in a putty-like form. (Organic vapors, Wear recommended respirator if exceeding permissible exposure limit, see section 8).

## Section 12. Ecological Information

### Ecotoxicity Effects:

Solvent Only: Expected to have low toxicity. LC/EC/IC50 > 1000 mg/l, Fish, Aquatic Invertebrates, Algae, Microorganisms

**Persistence and degradability:** No information available.

**Bioaccumulative potential:** No information available.

**Mobility in soil (solvent):** Mobility - Absorbs to soil and has low mobility. Floats on water.

**Other adverse effects:** No information available.

## Section 13. Disposal Considerations

**Waste treatment methods:** RCRA 40 CFR 261 Classification : This product as purchased does not fall under current US EPA RCRA Definitions of Hazardous Waste. Certain state regulations could affect whether a material is considered a hazardous waste upon disposal. It must also be noted that a material can become a hazardous waste if it is mixed with or comes in contact with a hazardous substance during use. Under RCRA it is the responsibility of user of a product to determine at the time of disposal, whether a material should be classified as a hazardous waste.

**Uncleaned packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## Section 14. Transport Information

**DOT (49 CFR 172):** Not Regulated

**IATA:** Not Regulated

Liquid / Solid (per ASTM D 4359-90): Material is a solid

## Section 15. Regulatory Information

**CERCLA HAZARDOUS SUBSTANCES (40 CFR Part 302.4):** This product is not reportable under 40 CFR Part 302.4.

**SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR Part 355):** This product does not contain any SARA 302 Extremely Hazardous Substances.

**SARA TITLE III SECTION 311/312 HAZARDOUS CATEGORIZATION (40 CFR Part 370):** Certain ingredients of this product are regulated under Sara Title III Section 311/312, see section 3 of this MSDS.

**SARA TITLE III SECTION 313 (40 CFR Part 372):** None

**U.S. INVENTORY (TSCA):** Any chemical substances (as defined in 40 CFR Part 710.2), that are contained in, or used in the manufacture of this product, are reported in the EPA TSCA Inventory. (As required per 40 CFR 710.3)

**CALIFORNIA PROPOSITION 65:** Crystalline Silica , Aluminosilicate (ceramic fibers)

**CANADA WHMIS:** Ingredient Disclosure List: RCF (Aluminosilicate), Crystalline Silica, quartz -- Crystalline Silica, Tridymite -- Crystalline Silica, Cristobalite, Solvent Mixture 64742-47-8

**WHMIS Classification:** RCF (Aluminosilicate) D2A , Solvent Mixture, B3, Crystalline Silica, quartz:, D2A

**EUROPEAN UNION:** Aluminosilicate (ceramic fibers): CLP 1B carcinogen, Crystalline Silica: CLP Carc.1A,

Solvent 64742-47-8:CLP Asp Tox 1, Carbon Fiber: CLP Eye Irit. 2, Natural Graphite: CLP STOT SE3

**OZONE DEPLETERS:** \* This product is not manufactured with or contains any Class I or Class II Ozone Depleting Chemicals. (ODC's)

**Section 16. Other Information**

**Estimated HMIS® Code:**

**Health Hazard:** 1 (See section 11 for chronic effects.)

**Flammability Hazard:** 1

**Physical Hazard:** 0

**Personal Protection:** NPCA recommends that PPE codes be determined by the employer, who is familiar with the actual conditions under which chemicals in the facility are used.

**Key Legend Information:**

N/A – Not Applicable

ND – Not Determined

OSHA – Occupational Safety and Health Administration

NIOSH – National Institute for Occupational Safety and Health

**Procedural Warning:**

For industrial use by professionally trained personnel only. When the compound is curing, vapors and gasses are given off and should be vented. Steps should be taken to ensure that the injection pressure in conjunction with pressure that may occur from gassing off does not exceed the pressure limitations of the piping system. Also, be aware it is quite common that the application temperature will exceed the compound flash point. Be aware of the possibility of a flash and take necessary precautions. Avoid contact with skin and eyes. See section 8 of SDS for personal protective equipment. Ventilation may be needed during heating/curing stage to exhaust organic vapors resulting from vaporization of certain organic agents. Always avoid direct contact with smoke and vapors being emitted from the compound during the heating/curing process. These vapors may be irritating to the skin, eyes and respiratory system. Read product technical data and safety information before use.

The information contained herein is based on the data available to us and is believed to be accurate. The data is offered in good faith as typical values and not as product specification. The information in this data sheet was compiled from information supplied by the vendors of the components of this compound. NRI makes no warranty either expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. The recommended industrial hygiene and safe handling procedures are believed to be genuinely applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. NRI assumes no responsibility for injury from the use of the product described herein. The information is intended only to assist in the safe handling of this material.

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