

Date Prepared: February 1, 2017

**1. Product and Company Identification**

**Jet-Lube LLC / Deacon  
 Bldg. #1, West Point Drive  
 Washington, PA 15301 USA  
 Phone (724) 225-8008**

**24 Hour Emergency Response Contact:**  
**CHEMTREC (USA and CANADA)**  
**Phone: 800-424-9300 or 703-527-3887**

Product Name: Deacon 989  
 Product Type: Graphite Sealant / Packing  
 Product Description: Black Fibrous Putty-Like Compound  
 General Use: Injectable Sealant

**2. Hazards Identification**

**GHS Classification :**  
 Carcinogenicity, 1A  
 Skin Irritation, 2  
 Eye Irritation, 2

**GHS Label Elements :**  
 Signal Word : Warning



**Hazard Statements:**  
 H315 / 320 Causes Skin and Eye Irritation  
 H333 May be harmful if inhaled (respirable dust and fibers, see NOTE below)  
 H335 May cause respiratory irritation

**Precautionary Statements :**  
 P261 Avoid breathing dust/ heated vapors (see note below)  
 P262 Do not get in eyes, on skin, or on clothing  
 P285 In case of inadequate ventilation wear respiratory protection (heated vapors)  
 P281 Use personal protective equipment as required  
 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  
 P501 Dispose of observing all Federal, State and Local regulations.

**NOTE: THIS PRODUCT IN ITS PURCHASED FORM DOES NOT PRESENT AN INHALATION HAZARD FROM FIBERS OR DUST, AS IT IS A PUTTY-LIKE COMPOUND, FIBERS AND DUST ARE NOT AIRBORN UNDER NORMAL HANDLING.**

**3. Composition / Information on Ingredients**

Ingredients	CAS No.	% by weight
Crystalline Silica	None	1-20
Natural Graphite	7782-42-5	1-20
Carbon Fiber	7440-44-0	1-20
Liquid Binder*	Proprietary	1-20
Non Hazardous Ingredients		25-50

\* Liquid Binder is not considered hazardous according to OSHA criteria

**4. First Aid Measures**

Ingestion: DO NOT INGEST. Oral toxicity not determined.  
Ingestion not likely.  
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.

**5. Fire Fighting Measures**

Recommended Extinguishing Agent:  
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).

Hazardous Products Formed by Fire  
or Thermal Decomposition:  
CO, CO<sub>2</sub>, Smoke, Incomplete Combustion Products. Hydrocarbons and oxides of carbon and sulfur

Unusual Fire or Explosion Hazards:  
Closed containers may rupture when exposed to extreme  
heat or fire conditions

Compressed Gases: None

Pressure at Room Temperature: Does not apply

**6. Accidental Release Measures**

Steps to be taken in cases of  
spill or leak:  
Wear proper personal protective equipment. Remove any sources of  
ignition from the area and allow hot surfaces to cool. Return  
uncontaminated material to metal container and seal container tightly.  
Dispose of contaminated material or waste. Clean up with mineral spirits.

**7. Handling and Storage**

Storage: Cool, dry, storage F. Store in closed containers.

Handling: Avoid contact with skin and eyes. Do not breathe heated 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.

**8. Exposure Controls / Personal Protection**

Exposure Limits Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Crystalline Silica			
Cristobalite	0.05 mg/m3 (respirable)	0.025 mg/m3 (respirable)	
Tridymite	0.05 mg/m3 (respirable)		
Quartz	0.1 mg/m3 (respirable)	0.025 mg/m3 (respirable)	
Natural Graphite	2.0 mg/m3 TWA Respirable Dust	N/E	3 mg/m3 for nuisance dust
Carbon Fiber	N/E	N/E	
Liquid Binder	Not Available	Not Available	

**Personal Protective Equipment (PPE)**

Eyes: Safety Glasses  
Full face shield recommended. (during injection process)

Skin: Chemical resistant gloves.

Respiratory Protection: NIOSH approved for organic vapors and dust.

Other Protective Clothing or Equipment: Coveralls or other protective clothing. Safety equipment as required in area.

Work / Hygienic Practices: Avoid contact with skin. Wash hands before eating.

Engineering Controls : Ventilation: (if heated) Local exhaust if poorly ventilated area or in confined spaces.

**9. Chemical and Physical Properties**

Appearance:	Black fibrous putty-like compound	
Odor:	Mild Odor	
pH:	Not Established	
Solubility in Water:	NIL	
Specific Gravity:	1.46 (compressed) (H <sub>2</sub> O =1)	
Evaporation Rate:	Not Applicable	
Boiling Point:	Not Applicable	
Melting Point:	Not Applicable	
Vapor Pressure:	Not Established	
Vapor Density:	Not Established	
VOC Content:	None	
Flash Point:	340 <sup>0</sup> F.	Method: Cleveland Open Cup

**Flammable Limits:**

LEL: Not Established

UEL: Not Established

**10. Stability and Reactivity**

Stability:	Stable
Hazardous Polymerization:	Will not occur
Hazardous Decomposition Or By-Products:	CO, CO <sub>2</sub> , Smoke, Incomplete Combustion Products. Hydrocarbons and oxides of carbon and sulfur
Incompatibility:	Strong Oxidizers and Strong Acids, Mineral Acids, Alkalies,

**11. Toxicology Information**

Primary Routes of Entry: Inhalation and contact.  
Signs and Symptoms of Overexposure: **Inhalation:** (heated vapors), respiratory irritation.  
**Eyes:** Redness and irritation.  
**Skin:** Chemical dermatitis, redness and itching.

Existing Conditions Aggravated by Exposure: Pre-existing skin condition if prolonged exposure to skin. (Wear chemical resistant gloves)  
Respiratory conditions if exposed to dust, fibers or heated vapors.  
Dust exposure is not a hazard with this product under normal use.  
Product is in a putty form.

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

IARC: Crystalline Silica, Group 1 IARC

OSHA Regulated: NO

Toxicity : Mixture, Not determined

Liquid Binder : Oral LD50 >5000 mg/kg (rat)  
Dermal LD50 >2000 mg/kg (rabbit)

Acute Health Hazards: **Skin:** Contact on bare skin can cause chemical dermatitis, redness, itching  
**Inhalation:** (heated vapors), respiratory irritation.

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

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**12. Ecological Information**

Liquid Binder Only: Aquatic toxicity rating : TLm (96 hr) >100 ppm.

**13. Disposal Considerations**

Recommended Methods of Disposal:

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.

**14. Transport Information**

DOT (49 CFR 172): Not Regulated

IATA : Not Regulated

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

**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

CANADA WHMIS: Ingredient Disclosure List: Crystalline Silica, quartz -- Crystalline Silica, Tridymite --  
Crystalline Silica, Cristobalite

WHMIS Classification : Crystalline Silica, quartz:, D2A

EUROPEAN UNION : Carbon Fiber: CLP Eye Irrit. 2, Natural Graphite: CLP STOT SE3, Crystalline Silica: CLP Carc.1A

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

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**16. OTHER INFORMATION**

The information contained in this MSDS sheet is based upon data supplied by our suppliers and data determined by us in our facilities at the time these products were formulated. We have reviewed any information that we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety data in this sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. If after reviewing this MSDS you have determined that this product poses unusual risks to you, your plant, or your plant personnel, or if you cannot comply fully with all safety recommendations, do not use this product. This product is intended for a temporary repair. The responsibility for whether or not the product is suitable for use rest solely with the purchaser. We recommend that the product be tested prior to use. Your use of this information is beyond our control, therefore, the information is provided without warranty expressed or implied. We accept no liability beyond the purchase price of the material.

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.

**Attn: Technician**

(For industrial use by professionally trained personnel only) Steps should be taken to insure that the injection pressure in conjunction with pressure that may occur from gassing off of the compound does not exceed the pressure limitations of the piping system. If the compound is gassing off, gasses should be vented. 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. 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.

**PREPARATION INFORMATION**

Prepared By:	Safety Department
Company:	Jet-Lube LLC / Deacon
Revision Date:	05-01-15 Revision: A