



**3. Composition / Information on Ingredients**

Ingredients	CAS No.	% by weight
Iron Oxide	1309-37-1	Less than 5%
Aluminosilicate	142844-00-6	1-20
Kaolin	1332-58-7	1-20
Titanium Dioxide	13463-67-7	less than 1%
Silica, Quartz	14808-60-7	less than 1%
Inorganic Resin Blend	Proprietary	50-100
Non Hazardous Ingredients		25-50

**4. First Aid Measures**

Ingestion: DO NOT INGEST. Oral toxicity not determined. Do NOT induce vomiting. 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:  
Use an extinguishing agent suitable for the surrounding fire.

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>, Hydrogen

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. Return uncontaminated material to metal container and seal container tightly.  
Dispose of contaminated material or waste. Clean up with warm water.

**7. Handling and Storage**

Storage: Cool, dry, storage below 100 F. Store in closed containers. Do not store in aluminum, fiberglass, copper, brass, zinc, tin or galvanized containers. Store in steel or plastic.

Handling: Avoid contact with skin and eyes. Wear eye protection. 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
Iron Oxide Silica, Quartz	5 mg/m3 (8 hours) 0.1 mg/m3 (respirable)	10mg/m3 (8 hours) 0.025 mg/m3 (respirable)	
Aluminosilicate (respirable ceramic fibers)	0.2 f/cc TLV, 8 hr, TWA	0.5 f/cc, 8 hr. TWA* * (Manufacturer Recommendation) (California PEL is 0.2 f/cc, 8 hr TWA)	
Kaolin Titanium Dioxide Inorganic Resin Blend	2 mg/m3 (resp. fraction) 10mg/m3 TWA Not Established	5 mg/m3 (resp. fraction) 15mg/m3 Not Established	

**Personal Protective Equipment (PPE)**

Eyes: Safety Glasses  
Full face shield recommended. (if being injected)

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 and eyes. Wash hands before eating.

Engineering Controls : Ventilation: 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

**9. Chemical and Physical Properties**

Appearance:	Tile Red paste	
Odor:	Earthy Odor	
pH:	9.7	
Solubility in Water:	Soluable Constituents	
Specific Gravity:	1.5 (uncured) (H2O =1)	
Evaporation Rate:	Not Applicable	
Boiling Point:	Not Applicable	
Melting Point:	Not Applicable	
Vapor Pressure:	Not Applicable	
Vapor Density:	Not Applicable	
VOC Content:	None	
lash Point:	Flash Point: NONE	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, CO2, Hydrogen
Incompatibility:	Strong Oxidizers and Strong Acids, Ammonium Salts, Reactive Metals. Can produce hydrogen on prolonged contact with aluminum, lead, zinc or tin.

**11. Toxicology Information**

Primary Routes of Entry: Inhalation and contact.  
 Signs and Symptoms of Overexposure: **Inhalation:** Possible dizziness or headaches, 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 disorders, asthma, chronic emphysema, heart condition (if prolonged and continuous exposure to dust).  
 Dust exposure is not a hazard with this product under normal use. Product is in a paste form.

Carcinogenicity  
 NTP: Ceramic Fibers, (respirable size) Reasonably Anticipated to be a Carcinogen  
 Crystalline Silica (respirable size) Known to be a Carcinogen  
 IARC: Ceramic Fibers, (respirable size) 2B, Titanium Dioxide, Group 2B IARC  
 Crystalline Silica, Group 1 IARC  
 OSHA Regulated: NO

Toxicity : Not Determined

Acute Health Hazards: **Skin:** Contact on bare skin can cause chemical dermatitis, redness, itching  
**Inhalation:** Spray mist can be irritating to respiratory tract..

Chronic Health Hazards: **Inhalation:**  
 Crystalline Silica, respirable size NTP Known Carcinogen.  
 Ceramic Fibers, NTP Reasonably Anticipated to be a Carcinogen

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

**12. Ecological Information**

No data on mixture.

**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: Aluminosilicate (ceramic fibers), Crystalline Silica, Titanium Dioxide (airborne particles of respirable size) does not cover titanium dioxide when it is bound within a product matrix. (see NOTE below)

CANADA WHMIS: Ingredient Disclosure List: Aluminosilicate (ceramic fibers), Titanium Dioxide, Crystalline Silica, quartz  
WHMIS Classification : Aluminosilicate (ceramic fibers) D2A, Titanium Dioxide D2A , Crystalline Silica, quartz:, D2A

EUROPEAN UNION : Aluminosilicate (ceramic fibers): CLP 1B carcinogen, Crystalline Silica: CLP Carc.1A, Titanium Dioxide: CLP Acute Tox 4, Carc. 2, Kaolin : CLP STOT SE3, Iron Oxide : CLP Eye Irrit 2, Skin Irrit. 2, STOT SE3

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

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

**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:	0	
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.	

Procedural Warning:

**Attn: Technician**

During the curing process this compound will release moisture in the form of steam. The containment enclosure that this compound is injected into must contain a sufficient number of vent ports so as to allow the steam to escape and to avoid a buildup of pressure within the enclosure. The design calculation of your hardware should take into account both the proper number and size of vent ports as well as the injection pressure of the compound. Compound should be injected at a rate that will allow you to monitor the internal pressure of the hardware to avoid over pressurization of either the leak sealing hardware or the original equipment.

We do not recommend pre-packing the hardware or beginning the injection process without the presence of a heat source. This is a thermal curing compound. A heat source (minimum of 250°F.) must be present during the injection process. The injection process must insure that compound is exposed to heat upon introduction to the hardware to avoid pockets of uncured material and the potential internal pressure buildup. **Failure to heed this warning could lead to catastrophic failure of the original equipment or the leak sealing hardware!**

**PREPARATION INFORMATION**

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