



**3. Composition / Information on Ingredients**

Ingredients	CAS No.	% by weight
Solvent Mixture	64742-47-8	1-20
Crystalline Silica	None	<5
Tetraborate Pentahydrate	12179-04-3	<4
Aluminosilicate	142844-00-6	1-20
Kaolin	1332-58-7	1-20
Modified Natural Resins	Proprietary	50-75

**4. First Aid Measures**

- 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 pneumonia. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. 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>, H<sub>2</sub>S, SO<sub>2</sub>, Smoke, Incomplete Combustion Products
- 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 below 90 degrees F. Store in closed containers. Refrigerate for best shelf life.
- 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.

**8. Exposure Controls / Personal Protection**

Exposure Limits Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Solvent Mixture	100ppm TWA	500ppm TWA	
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)	
Tetraborate Pentahydrate	2 mg/m3 (TWA)	15 mg/m3 (total dust) 5 mg/m3 (respirable dust)	
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	2 mg/m3 (resp. fraction)	5 mg/m3 (resp. fraction)	
Modified Natural Resins	10mg/m3	15mg/m3	

**Personal Protective Equipment (PPE)**

Eyes: Safety Glasses

Full face shield recommended. (if being injected)

Skin: Chemical resistant gloves such as impervious butyl or nitrile rubber 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: 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:	Brown paste
Odor:	Solvent like
pH:	10.1
Solubility in Water:	NIL
Specific Gravity:	1.3 (uncured) (H2O =1)
Evaporation Rate:	Not Applicable
Boiling Point:	Not Applicable
Melting Point:	Not Applicable
Vapor Pressure:	Solvent only, mixture not tested : 0.6 kPa (2.2 mm Hg) at 20 C
Vapor Density:	Solvent only, mixture not tested 5.5 (air =1)
VOC Content:	Maximum 11% by weight
Flash Point:	Flash Point: 233 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, CO2, H2S, SO2, Smoke, Incomplete Combustion Products
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:** 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 or vapors). Dust exposure is not a hazard with this product under normal use. Product is in a paste form. (Organic vapors, Wear recommended respirator if exceeding permissible exposure limit, see section 8)

**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  
 Crystalline Silica, Group 1 IARC  
 OSHA Regulated: NO

**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

Acute Health Hazards: **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 Hazards: **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)

**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**

Solvent Only : Expected to have low toxicity. LC/EC/IC50 > 1000 mg/l, Fish, Aquatic Invertebrates, Algae, Microorganisms.  
 Mobility - Absorbs to soil and has low mobility. Floats on water.

**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. Contains solvent, do not let waste contaminate soil or water.  
 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

CANADA WHMIS: Ingredient Disclosure List: Aluminosilicate (ceramic fibers), Titanium Dioxide, Solvent 64742-47-8  
Tetraborate Pentahydrate (Sodium tetraborate), Crystalline Silica, quartz --  
Crystalline Silica, Tridymite -- Crystalline Silica, Cristobalite,  
WHMIS Classification : Aluminosilicate (ceramic fibers) D2A, Titanium Dioxide D2A , Solvent B3  
Tetraborate Pentahydrate (Sodium tetraborate) D2A, 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, Tetraborate Pentahydrate: CLP Eye Irrit 2, Kaolin : CLP 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:	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.	

Procedural Warning:

Attn: Technician

(For Industrial use Only)

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. It is quite common that the application temperature will exceed the uncured compound flash point. Be aware of the possibility of a flash and take necessary precautions.

Read product technical data and safety information before using product.

**PREPARATION INFORMATION**

Prepared By:	Safety Department
Company:	Jet-Lube LLC / Deacon
Revision Date:	03-31-15 Revision: F