

3. Composition / Information on Ingredients

Ingredients	CAS No.	% by weight
Methyltriacetoxysilane	4253-34-3	1-20
Ethyltriacetoxysilane	17689-77-9	1-20
Silica , Amorphous (Silica Gel)	7631-86-9	1-20
Dimethyl siloxane, hydroxyl-terminated	70131-67-8	70-90
Hydrotreated middle petroleum distillates	64742-46-7	<8

4. First Aid Measures

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

CO₂, traces of incompletely burned carbon compounds, Silicon dioxide, Formaldehyde

Unusual Fire or Explosion Hazards: None

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 container and seal container tightly.
May present a slip hazard, clean up as appropriate.
Dispose of contaminated material or waste.

7. Handling and Storage

Storage: Cool, dry, storage. 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 when cured, 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
Methyltriacetoxysilane	See acetic acid comment below		
Ethyltriacetoxysilane	See acetic acid comment below		
Silica , Amorphous	10 mg/m3 TWA (total dust)* * silica gel, much less toxic than crystalline forms, does not cause silicosis.		
Dimethyl siloxane, hydroxyl-terminated	Not Established	Not Established	
Hydrotreated middle petroleum distillates	5mg/m3	5mg/m3	

Items below are not ingredients but possible by-products:

Acetic Acid

Comment : Acetic Acid is formed upon contact with water or humid air, provide adequate ventilation to control exposure guidelines of :

10 ppm TWA	10 ppm TWA
15 ppm STEL	

Formaldehyde (When heated to temperatures above 150 C in the presence of open air, product can form formaldehyde vapors.)

Formaldehyde is a potential cancer causer and a known skin and respiratory sensitizer.

Formaldehyde	1 ppm TWA	.75 ppm TWA
		2 ppm STEL

Personal Protective Equipment (PPE)

Eyes: Safety Glasses

Skin: Work gloves.

Respiratory Protection: NIOSH approved for organic vapors and dust if needed.

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.
General ventilation recommended.

9. Chemical and Physical Properties

Appearance: Red Rubber Gel
 Odor: Vinegar Odor
 pH: 5.9
 Solubility in Water: NIL
 Specific Gravity: 1.007 (H2O =1)
 Evaporation Rate: Not Applicable
 Boiling Point: Not Applicable
 Melting Point: Not Applicable
 Vapor Pressure: Not Applicable
 Vapor Density: Not Established
 VOC Content: 29 G/L
 Flash Point: over 212⁰ F. Method: Closed 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: CO2, traces of incompletely burned carbon compounds, Silicon dioxide, Formaldehyde
 Incompatibility: Strong Oxidizers and Some Acids

11. Toxicology Information

Primary Routes of Entry: Inhalation and contact.
Signs and Symptoms of Overexposure: **Inhalation:** respiratory irritation.
Eyes: Irritation.
Skin: Possible irritation with prolonged contact.

Existing Conditions Aggravated by Exposure: Pre-existing skin condition if prolonged exposure to skin. (Wear chemical resistant gloves)

Carcinogenicity

NTP: None

IARC: None

OSHA Regulated: NO

Toxicity : When heated to temperatures above 150 C in the presence of open air, product can form formaldehyde vapors. Formaldehyde is a potential cancer causer and a known skin and respiratory sensitizer.

Acute Health Hazards: **Skin:** Possible irritation with prolonged contact.

Inhalation: Irritation from vapors.**Eyes:** Irritation.

Chronic Health Hazards: None Known

12. Ecological Information

No information is available.

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. NOTE : Formaldehyde (When heated to temperatures above 150 C in the presence of open air, product can form formaldehyde vapors.)

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 NOTE : Formaldehyde (When heated to temperatures above 150 C in the presence of open air, product can form formaldehyde vapors.)

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: Formaldehyde (When heated to temperatures above 150 C in the presence of open air, product can form formaldehyde vapors.) **Not an ingredient, but a possible by-product**

EUROPEAN UNION : Silica, Amorphous: CLP STOT SE3, Ethyltriacetoxysilane : CLP Acute Tox 4 Skin Corr. 1B, Methyltriacetoxysilane : CLP Acute Tox 4, Skin Corr.1B, Dimethyl siloxane, hydroxyl-terminated : CLP, Eye Irrit 2, Skin Irrit. 2, Hydrotreated middle petroleum distillates: CLP Asp Tox 1

Items below are not ingredients but possible by-products:

Formaldehyde (When heated to temperatures above 150 C in the presence of open air, product can form formaldehyde vapors.) : CLP Acute Tox 3, Carc.2, Acetic Acid (formed during curing on exposure to water, moisture, or humid air.) : CLP Flam Liq 3, Skin Corr 1A

CANADA WHMIS: Ingredient Disclosure List : Formaldehyde (When heated to temperatures above 150 C in the presence of open air, product can form formaldehyde vapors.) Acetic Acid (formed during curing on exposure to water, moisture, or humid air.) Silica, amorphous fumed. form formaldehyde vapors.) **Not an ingredient, but a possible by-product**

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

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:	2
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.

PREPARATION INFORMATION

Prepared By:	Safety Department
Company:	Jet-Lube LLC / Deacon
Revision Date:	10-06-14 Revision: D