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

3. Composition / Information on Ingredients

Ingredients	CAS No.	% by weight
Dimethylbis[(1-oxoneodecyl)oxy]stannane	68928-76-7	5-10
Cobalt Aluminate Blue Spinel	1345-16-0	0.1 - 1
Dimethyl Siloxane, Trimethylsiloxy-terminated	63148-62-9	60-90
Calcium carbonate	471-34-1	10-20

4. First Aid Measures

- Ingestion: DO NOT INGEST. If swallowed, rinse mouth thoroughly with water, obtain medical advice.
Do not induce vomiting !
- Inhalation: if symptoms are experienced, remove victim to fresh air. If symptoms persist, seek medical attention.
- Skin Contact: Flush skin with plenty of soap and water. Remove contaminated clothing and shoes, thoroughly clean before reuse.
If irritation persists, obtain medical advice.
- Eye Contact: Flush eyes with water.
If symptoms persist, seek medical attention.

5. Fire Fighting Measures

Recommended Extinguishing Agent:

Alcohol Resistant 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:

Thermal breakdown during a fire can evolve the following decomposition products:
Silicon Oxides, Formaldehyde, Metal Oxides, Carbon Oxides

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 with a suitable absorbent. Discharge into the environment must be avoided. Dispose of contaminated material or waste.

7. Handling and Storage

Storage: Cool, dry, storage. Keep out of reach of children. Store in closed properly labeled containers.

Handling: Avoid contact with skin and eyes. Do not swallow. Do not breathe vapors or mist, do not take internally. Take care to avoid spills. This product in its purchased form does not create an inhalation hazard from 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
Dimethylbis[(1-oxoneodecyl)oxy]stannane (observe organic tin compounds limit)	0.1 mg/m ³ TWA (skin)	0.1 mg/m ³ TWA (skin) 0.2 mg/m ³ (STEL)	
Cobalt Aluminate Blue Spinel	10 mg/m ³ inhalable particulate 3 mg/m ³ resp particulate	15 mg/m ³ TWA total dust 5 mg/m ³ resp. fraction	
Dimethyl Siloxane, Trimethylsiloxy-terminated	Not Established	Not Established	
Calcium carbonate		15 mg/m ³ TWA (Total Dust) 5 mg/m ³ TWA (Respirable fraction)	

Items below are not ingredients but possible by-products:

Formaldehyde (When heated to temperatures above 180 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
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Personal Protective Equipment (PPE)

Eyes: Safety Glasses

Skin: Chemical resistant gloves. Skin contact must be avoided by using impervious protection. (gloves, apron, boots, ect)
Choose gloves to protect hands against chemicals depending on the concentration specific to place of work.
Breakthrough time is not determined, change gloves often !

Respiratory Protection: NIOSH approved air purifying respirator with an organic vapor cartridge or canister may be permissible under circumstances where airborne concentrations are expected to exceed exposure limits.

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. Avoid breathing vapors. Wash hands before eating.
Wash hands before breaks and at end of day.

Engineering Controls : Ventilation: Local exhaust if poorly ventilated area or in confined spaces.
General ventilation recommended.

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

9. Chemical and Physical Properties

Appearance: blue viscous liquid
 Odor: slight odor
 pH: 7.0 (cured rubber)
 Solubility in Water: Not determined
 Specific Gravity: 1.1 (H₂O =1)
 Evaporation Rate: Not Applicable
 Boiling Point: Not Applicable
 Melting Point: Not Applicable
 Vapor Pressure: Not Applicable
 Vapor Density: Not Established
 VOC Content: None
 Viscosity : 10,000 mPa's
 Flash Point: >214⁰ F.

Flammable Limits:

LEL: Not Established
 UEL: Not Established

10. Stability and Reactivity

Stability: Stable
 Hazardous Polymerization: Will not occur
 Hazardous Decomposition
 Or By-Products: Thermal breakdown during a fire can evolve the following decomposition products:
 Silicon Oxides, Formaldehyde, Metal Oxides, Carbon Oxides
 Incompatibility: Strong Oxidizers and Some Acids

11. Toxicology Information

Primary Routes of Entry: Inhalation and skin contact.
 Signs and Symptoms of Overexposure: **Inhalation:** Irritates respiratory passages very slightly
Eyes: Direct contact may cause temporary redness and discomfort
Skin : Possible irritation
Ingestion: low ingestion hazard in normal use. Overexposure by ingestion
 May injure the following organs: Immune system, Central nervous system

Existing Conditions Aggravated
 by Exposure: None Known

Carcinogenicity

NTP: None
 IARC: Cobalt Aluminate Blue Spinel IARC, Group 2B Cobalt Compound
 OSHA Regulated: NO

Toxicity : Developmental Toxicity: Dimethylbis[(1-oxoneodecyl)oxy]stannane 5-10% of product mixture
 Suspected of damaging fertility of the unborn child: Evidence of birth defects
 (teratogenicity) in laboratory animals at maternally toxic doses.

Acute Oral Toxicity : Product : acute toxicity estimate >5000 mg/kg Method : Calculation Method
 Dimethylbis[(1-oxoneodecyl)oxy]stannane : LD50 (RAT) 894 mg/kg Method: OECD Test Guideline 401

Acute Health Hazards: **Skin:** Possible irritation.
Inhalation: Irritates respiratory passages very slightly
Eyes: Direct contact may cause temporary redness and discomfort

Chronic Health Hazards: **Ingestion:** low ingestion hazard in normal use. Overexposure by ingestion
 may injure the following organs: Immune system, Central nervous system

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

12. Ecological Information

Dimethylbis[(1-oxoneodecyl)oxy]stannane may cause long lasting harmful effects to aquatic life.
Not readily biodegradable.

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. It is recommended that this product in the purchased form be disposed of as a 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 Liquid

15. REGULATORY INFORMATION

CERCLA HAZARDOUS SUBSTANCES (40 CFR Part 302.4): None

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): Cobalt Aluminate Blue Spinel .1-1 % of product mixture

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 180 C in the presence of open air, product can form formaldehyde vapors.) THIS IS NOT AN INGREDIENT, BUT A POSSIBLE BY-PRODUCT

EUROPEAN UNION : Dimethylbis[(1-oxoneodecyl)oxy]stannane: CLP Acute Toxicity 4, Repr. 2, STOT RE 1
Cobalt Aluminate Blue Spinel : CLP STOT SE3, Skin Irritant 2, Eye irritant 2.
Calcium Carbonate : CLP Skin Irritant 2, Eye Damage 2
Dimethyl Siloxane, Trimethylsiloxy-terminated: CLP Eye Irritant 2

Items below are not ingredients but possible by-products:

Formaldehyde (When heated to temperatures above 180 C in the presence of open air, product can form formaldehyde vapors.) : CLP Acute Tox 3, Carc.2,

CANADA WHMIS: Ingredient Disclosure List : : Formaldehyde (When heated to temperatures above 180 C in the presence of open air, product can form formaldehyde vapors.) THIS IS 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 SDS 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 SDS 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.	

PREPARATION INFORMATION

Prepared By:	Safety Department
Company:	Jet-Lube LLC / Deacon
Revision Date:	06-01-15 Revision: D