



**3. Composition / Information on Ingredients**

Ingredients	CAS No.	% by weight
Nickel	7440-02-0	<40
Aluminum	7429-90-5	<6

**4. First Aid Measures**

- Ingestion: DO NOT INGEST. Do not induce vomiting, product contains a petroleum oil that may be aspirated into lungs.  
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
- 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:  
If product is burned hazardous gases such as Oxides of nickel, carbon, and nitrogen and various hydrocarbons may be produced.
- 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. Do not allow to enter sewers or waterways.  
Clean up with mineral spirits.

**7. Handling and Storage**

- Storage: Cool, dry, storage. Store in closed containers. Avoid contamination from water.
- 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
Nickel	1.5 mg/m <sup>3</sup> TWA inhalable fraction	1 mg/m <sup>3</sup> TWA	
Aluminum	1 mg/m <sup>3</sup> 8 hrs Form : Respirable Fraction	5 mg/m <sup>3</sup> (as Al) 8 hours Form: Respirable Fraction 15 mg/m <sup>3</sup> (as Al) 8 hours Form : Total Dust	

**Personal Protective Equipment (PPE)**

Eyes: Safety Glasses

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: 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:	Nickel colored paste	
Odor:	Grease Like Odor	
pH:	Not Established	
Solubility in Water:	NIL	
Specific Gravity:	1.2 (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:	over 450 <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:	If product is burned hazardous gases such as oxides of nickel, carbon, and nitrogen and various hydrocarbons may be produced.
Incompatibility:	Strong Oxidizers and Strong Acids , Peroxides

**11. Toxicology Information**

Primary Routes of Entry: Inhalation and contact.  
Signs and Symptoms of Overexposure: **Inhalation:** Heated fumes could be irritating  
**Eyes:** Could cause irritation.  
**Skin:** possible irritation.

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 heated vapors). Dust exposure is not a hazard with this product under normal use. Product is in a putty-like form. (Organic vapors , Wear recommended respirator if exceeding permissible exposure limit, see section 8)

Carcinogenicity  
NTP: Nickel, Known Carcinogen  
IARC: Nickel, Group 1  
OSHA Regulated: NO

Toxicity : Nickel, Oral LD50 Rat: >9000 mg/kg

Acute Health Hazards: **Skin:** Possible irritation  
**Inhalation:** Heated fumes could be irritating

Chronic Health Hazards: **Inhalation:**  
Nickel, known carcinogen  
(Wear recommended respirator if exceeding permissible exposure limit, see section 8)

**See note below.**

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

**12. Ecological Information**

None Known

**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): Nickel, 25-50% of total mixture by weight.

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): Aluminum 0-25% of total mixture by weight (fume, dust),  
Nickel, 25-50% of total mixture by weight.

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 : Nickel and certain Nickel compounds.

CANADA WHMIS: Ingredient Disclosure List: Aluminum, Nickel, elemental  
WHMIS Classification : Aluminum B6

EUROPEAN UNION : Nickel: CLP Skin Sens. 1, Carc 2, STOT RE1,  
Aluminum: CLP Flam Solid 1- Water React 2

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 PASTE COMPOUND. DUST IS 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:	2*	* See section 11 for chronic effects.
Flammability Hazard:	1	
Physical Hazard:	1	

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)  
Read technical data and safety information before use.

**PREPARATION INFORMATION**

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