

3. Composition / Information on Ingredients

Ingredients	CAS No.	% by weight
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	25068-38-6	70-100
Natural Graphite	7782-42-5	1-20
Synthetic Fiber	None	1-20
Hydrous magnesium silicate	14807-96-6	1-20

4. First Aid Measures

- Ingestion:** DO NOT INGEST. Wash mouth with water. Remove dentures if any. If material has been swallowed, and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. DO NOT INDUCE VOMITING unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health affects persist. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove to fresh air. If symptoms persist, seek medical attention. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous for the person providing aid to give mouth to mouth resuscitation. If unconscious place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin Contact:** Flush skin with plenty of water, Remove contaminated clothing or shoes. Continue to rinse for at least 10 minutes. Contact physician if irritation or rash develops. For contact with hot product, flush contaminated skin with large amounts of cold water to dissipate heat. Cover burned skin with cotton sheeting or gauze. Get medical attention immediately.
- Eye Contact:** Flush with water 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. If symptoms persist, seek medical attention.

5. Fire Fighting Measures

- Recommended Extinguishing Agent:**
Use an extinguishing agent suitable for 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:**
Carbon oxides
- 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. Do not walk through spilled material. Avoid run off to soil, waterways or drains or sewers. Dispose of contaminated material or waste.

7. Handling and Storage

Storage: Cool, dry, storage below 90 degrees F, protected from direct sunlight..
Store in closed containers. If material has solidified in storage, follow instructions on label to return it to liquid form.

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 (in cured state) 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
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	Not Established	Not Established	
Natural Graphite	2.0 mg/m3 TWA Respirable Dust	N/E	3 mg/m3 for nuisance dust
Synthetic Fiber	10 mg/m3 TWA inhalable 3 mg/m3 TWA respirable	15 mg/m3 TWA, total dust 5mg/m3 TWA respirable dust	
Hydrous magnesium silicate	2 mg/m3 (8 hour) TWA respirable dust	20 mppcf PEL TWA	

Personal Protective Equipment (PPE)

Eyes: Safety Glasses
Full face shield recommended. (during injection or pouring process)

Skin: Chemical resistant gloves.

Respiratory Protection:

If necessary, use a properly fitted air-purifying respirator complying with an approved standard if a risk assessment indicates this is necessary.

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, smoking or using the lavatory..

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

9. Chemical and Physical Properties

Appearance: Black liquid
Odor: slight odor
pH: 7.7 (Cured)
Solubility in Water: NIL
Specific Gravity: 1.17 (H₂O =1)
Evaporation Rate: Not Applicable
Boiling Point: over 500 F
Melting Point: Not Applicable
Vapor Pressure: 0.3 mbar @77 C (171 F)
Vapor Density: Not Established
V.O.C. Content : 0.0944% by weight (when mixed 1-1 ratio with part two) ASTM D2369-10
Flash Point: 251 C (484 ° F.) Method: Pensky-Martens Closed Cup ASTM D 93

Flammable Limits:

LEL: Not Established
UEL: Not Established

10. Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur
Hazardous Decomposition
Or By-Products: Carbon Oxides
Incompatibility: Strong Oxidizers

11. Toxicology Information

Primary Routes of Entry: Inhalation and contact.
Signs and Symptoms of Overexposure: **Inhalation:** respiratory tract irritation, coughing
Eyes: redness and irritation.
Skin: redness and itching.

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 : LD50 Oral Rat 30,000 mg/kg
LD50 Dermal Rat >2000 mg/kg

Acute Health Hazards: **Skin:** Irritation, may cause allergic skin reaction.
Inhalation: slightly irritating to respiratory system.
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 liquid

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: None

CANADA WHMIS: Ingredient Disclosure List : None WHMIS Classification: 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer D2B, Hydrous magnesium silicate, D2A

EUROPEAN UNION : 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer: CLP Skin Irritation, 2
 Skin Sensitivity 1, Eye Irritation, 2, Aquatic Chronic 2
 Natural Graphite: CLP STOT SE3 Hydrous magnesium silicate: CLP Acute Tox 4

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.

Attn: Technician

(For industrial use by professionally trained personnel only) If being injected, steps should be taken to insure that the injection pressure does not exceed the pressure limitations of the piping system. Also, be aware it is quite common that the application temperature will exceed the compound flash point. Be aware of the possibility of a flash and take necessary precautions. 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 heated vapors being emitted from the compound. These vapors may be irritating to the skin, eyes and respiratory system. Read product technical data and safety information before use.

PREPARATION INFORMATION

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