

**SECTION 1 -- IDENTIFICATION**

**Trade Name:** Gearlube Tube  
**Supplier's Name:** Metalink Polymers and Adhesives  
**Address:** P.O. Box 209, Buna, TX 77612

**Product No.:** 12M110  
**Emergency Phone:** 1-800-721-2448

**SECTION 2 -- COMPOSITION / INFORMATION ON INGREDIENTS**

**Zinc**

- CAS # 7440-66-6
- RTECS #:ZG8600000
- = Weight : .23
- EPA Report Quantity: 1000 lbs
- DOT Report Quantity: 1000 lbs

**12-Hydroxystearic Acid Lithium Salt (Lithium Soap Thickener)**

- CAS # 7620-77-1
- + Weight : 1.57

**Chlorine**

- CAS # 7782-50-5
- RTECS # : F02100000
- = Weight : .63
- OSHA PEL: C3 MG/M3; C1 PPM
- ACGIH TLV: 1.5 MG/M3; 0.5 PPM
- ACGIH STEL: 2.9 MG/MC; 1 PPM
- EPA Report Quantity: 10 lbs
- DOT Report Quantity: 10 lbs

**Chloro Alkanes**

- CAS # 61788-76-9
- = Weight : 1.43

**Phosphorodithioic Acid, O, O-DI-C1-14-Alkyl Esters, Zinc Salts;**

**(Phosphorodithioic Acid, O, O-DI-C1-14-Alkyl Esters, Zinc Salts (2:1) (ZDDP))**

- CAS # 68649-42-3
- = Weight : 1.51

**Fatty Acids , C16-22, Lithium Salts**

- CAS # 68783-36-8
- = Weight : .4

**Resin and Rosin Acids Polymo, Zinc Salts**

- CAS # 70248-43-0
- = Weight : 1.01

**Non-Hazardous Petroleum Lubricating Oil**

- Fraction by Weight: Balance

**SECTION 3 HAZARD IDENTIFICATION**

**Routes of Entry:** Inhalation - Yes      Skin - Yes      Ingestion - Yes  
**Reports of Carcinogenicity:** NTP - No      IARC - No      OSHA - No

<b>Health Hazards - Acute and Chronic:</b>	
<b>Eye contact</b>	Possible irritation
<b>Skin contact</b>	Possible irritation
<b>Inhalation</b>	Speech, sleepiness, vertigo, thirsty, burning of nose and mouth, choking, coughing, vomiting, headaches, dizziness and stomach irritation
<b>Ingestion</b>	Possible irritation to GI tract
<b>Components:</b>	
<b>Zinc</b>	Hazard by inhalation, skin and eye contact in form of exposure to zinc oxide fume formed by oxidation of vaporized zinc. Inhalation may cause metal fume fever. Skin and eye contact may cause irritation. Pure Zinc dust is relatively non-toxic.
<b>Target organs</b>	Respiratory system, skin, eyes
<b>Lithium Soap Thickener</b>	Hazard by inhalation, skin and eye contact. Inhalation may cause irritation to respiratory system, nausea, tremors (effects of overexposure).

<b>Effects of overexposure:</b>	
<b>Health hazards</b>	Slurred speech, sleepiness, vertigo and thirst. Skin and eye contact may cause irritation. <i>Target organs:</i> Respiratory system, cns, skin and eyes.
<b>Chlorine</b>	Hazard by inhalation, skin and eye contact, inhalation may cause burning of nose and mouth, choking, coughing, nausea, vomiting, headaches, dizziness, syncope, pulmonary edema, pneumonia and hypoxemia. Skin and eye contact may cause irritation. <i>Target organs:</i> Respiratory system, skin and eyes.
<b>Chloro Alkanes</b>	Hazard by inhalation, skin and eye contact. Inhalation may cause irritation to respiratory system, nausea, sleepiness and headaches. Skin and eye contact may cause irritation. <i>Target organs:</i> Respiratory system, cns, skin and eyes.
<b>Phosphorodithioic Acid, O, O-DI, C1-14-Alkyl EST ERS, Zinc (Supdat)</b>	Medical condition aggravated by exposure. Consult a physician.

**SECTION 4 -- FIRST AID MEASURES**

**Eye contact:** Flush eyes with water for at least 15-20 minutes while holding eyelid open. If irritation persists, consult a physician.  
**Skin Contact:** Wash with soap and water to remove material. **Inhalation:** Expose to fresh air. **Ingestion:** Consult a physician.

**SECTION 5 -- FIRE FIGHTING MEASURES**

<b>Flash Point Method: PMCC</b>	204.4° C, 400° F
<b>Extinguishing Media</b>	Carbon dioxide, foam, dry chemical and water fog
<b>Fire Fighting Procedures</b>	Use NIOSH approved SCBA and full protective equipment. Water or foam may cause frothing.
<b>Unusual Fire/Explosion Hazard</b>	Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply. Zinc dust may form explosive mixture with air; damp dust may ignite spontaneously and ignite on exposure to air.

**SECTION 6 -- ACCIDENTAL RELEASE MEASURES**

**Spill release procedures:** Solid under 38° C. If liquid, wash with synthetic detergent and hot water. If solid, scrape up and discard.

**SECTION 7 -- HANDLING AND STORAGE**

Handle as a typical grease.

**SECTION 8 -- EXPOSURE CONTROLS AND PERSONAL PROTECTION**

<b>Personal Protective Equipment:</b>	
<b>Respiratory Protection</b>	Use NIOSH approved respiratory appropriate for exposure of concern
<b>Ventilation</b>	Not needed
<b>Gloves</b>	Impervious gloves
<b>Eye Protection</b>	ANSI approved chemical workers goggles
<b>Other Protective Equipment</b>	Eye wash and deluge shower meeting ANSI design criteria. Clothing/equipment: N/A
<b>Supplemental Safety and Health - Health Hazards:</b>	
<b>Salts (2:1) (ZDDP)</b>	Hazard by inhalation, ingestion, skin and eye contact. Inhalation may cause irritation and hemorrhages in stomach. Ingestion may cause irritation to GI tract. Skin and eye contact may cause irritation. <i>Target Organs:</i> GI tract, skin and eyes
<b>Fatty Acids, C-16-22,</b>	
<b>Lithium Salts</b>	Hazard by inhalation, skin and eye contact, inhalation may cause respiratory irritation

**SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES**

<b>Vapor pressure:</b>	< 0.1 MMHG @ 20C
<b>Solubility in water:</b>	Insoluble
<b>Appearance and Odor:</b>	Brown grease and mild odor

**SECTION 10 -- STABILITY AND REACTIVITY**

**Stability indicator/materials to avoid:** Yes, contact of zinc with acids and alkali hydroxides results in evolution of hydrogen. Chlorine is incompatible with acetylene, ether, turpentine, ammonia, fuel gas, hydrogen and finely divided metals. Lithium soap thickener, chloro alkanes. **Hazardous decomposition products:** Carbon monoxide, metal oxides and elemental oxides. Hazardous

decomposition products of lithium soap thickener are carbon dioxide and carbon monoxide. Hazardous decomposition production of chlorine is hydrochloric acid (toxicological information).

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**SECTION 11 -- TOXICOLOGICAL INFORMATION**

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Hazardous decomposition products of chloro alkanes are hydrochloric acid, carbon dioxide and carbon monoxide. Hazardous decomposition products of phosphorodithoic acid, O, O-DI, C-1-14-Alkyl Esters, Zinc salts (s:1) (ZDDP) are phosphorus oxides. Hazardous deposition products of fatty acids, C-16-22, lithium salts are carbon dioxide and carbon monoxide.

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**SECTION 12 -- DISPOSAL CONSIDERATION**

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**Waste disposal methods:** Empty product containers, product waste and cleaning media should be stored and disposed of according to the appropriate local, state and federal regulatory guidelines.

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**SECTION 13 -- REGULATORY INFORMATION**

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**SARA Title III Information:** Zinc and chlorine are toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) and Supplier Notification Requirements (40 CFR Part 372).

**Federal Regulatory Information:** Chlorine is on the list of hazardous air pollutants that are regulated under Section 112 of the EPA Clean Air Act, 1990.

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**SECTION 14 -- OTHER INFORMATION**

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The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the user. No suggestions for use are intended as, and nothing herein shall be construed as a recommendation to infringe any existing patents or violate any federal, state or local laws, rules, regulations or ordinances.

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