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**Product Name: Phonolube**  
MSDS Number: 221  
Revision Date: 3/25/11  
Supersedes Date: 2/5/07

## MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: Lubricant  
Product Name: **Phonolube**  
Part Number(s): **10-1223**

**Emergency Contact: Chemtrec**  
**Phone (24 hours): (800) 424-9300**

### Section 1 - Identification of Product

HMIS Ratings:	Least	0
	Slight	1
Health 1	Moderate	2
Flammability 1	High	3
Reactivity 0	Extreme	4
Personal Protection X		

Emergency Overview: This product is a semi-solid that is insoluble in water. Direct eye contact may cause minor, short term irritation. Short term skin exposure is not expected to be irritating. Inhalation and ingestion are not anticipated routes of exposure during normal conditions of use.

### Section 2 - Hazardous Ingredients

Components listed in this section may contribute to the potential hazards associated with exposure to the concentrate. The product may contain additional non-hazardous or trade-secret components.

Hazardous Ingredients	CAS #	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL
Zinc oxide*	1314-13-2	<5	5 mg/m3 (fume) 10 mg/m3 (Total dust)	10 mg/m3 (fume)	5 mg/m3 (resp.fraction) 15 mg/m3 (total dust)

\*This component is regulated under Section 313 of SARA

Carcinogenic Components: This product contains no carcinogens.

### Section 3 - Physical Data

Physical Appearance	White
Odor	Mild petroleum
Solubility in Water (@ 20°C):	Insoluble
Physical State	Semi-solid
Specific Gravity (Water=1):	.950

#### Section 4 - Fire & Explosion Hazard Data

Flash Point (Method):	507°F COC	
Flammable Limits:	LEL: UNK	UEL: UNK
Extinguishing Media	In accordance with NFPA guidance, dry chemical, foam, or CO <sub>2</sub> fire extinguishers are all acceptable. Note that while water fog extinguishers are also acceptable, do NOT apply a direct stream of water onto burning product because it may cause spreading and increase fire intensity.	
Unusual Fire & Explosion Hazards:	No further data known.	
Fire-Fighting Procedures and Equipment:	Emergency responders in the danger area should wear bunker gear and self-contained breathing apparatus for fires beyond the incipient stage. See Section 8 of the MSDS for other PPE to be worn as conditions warrant.	

#### Section 5 - Health Hazard Data

##### Potential Health Effects and Symptoms from Short Term/Acute Exposure:

Eye Exposure:	This product is not expected to cause eye irritation under normal conditions of use. Symptoms of slight eye irritation may result when direct contact occurs, or when exposed to high mist levels in poorly ventilated areas.
Skin Exposure:	Short term skin contact is not expected to cause skin irritation. Prolonged or repeated direct exposure to the skin may result in symptoms of irritation and redness.
Inhalation:	This product has low volatility and so is not expected to cause respiratory tract irritation during normal conditions of use. Exposure to high mist levels in poorly ventilated areas may cause temporary irritation to the upper respiratory tract.
Ingestion:	Ingestion may cause slight stomach irritation and discomfort.
Potential Chronic Health Effects:	No further data known.
Medical Conditions Aggravated by Exposure:	No further data known.
Carcinogenicity:	This product is not listed as known or suspected carcinogen by IARC, OSHA, or the NTP.

**First Aid Measures:**

Eye Contact:	Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. If symptoms persist, contact a physician.
Skin Contact:	Remove product from the skin by washing with a mild soap and water. Contaminated clothing should be removed to prevent prolonged exposure. If product is injected under the skin, seek treatment immediately. If symptoms of exposure persist, contact a physician.
Inhalation:	If signs or symptoms of overexposure occur, remove the employee to fresh air. If symptoms persist, seek medical attention.
Ingestion:	If ingested, dilute stomach contents with two glasses of milk or water. (NOTE: Do NOT give anything by mouth to an unconscious person.) Do not induce vomiting without medical supervision. If vomiting occurs spontaneously, keep airway clear. If symptoms of ingestion persist, seek medical attention.
Note to Physician:	No further data known.

<b>Section 6 - Reactivity Data</b>
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Incompatibility:	This product is incompatible with strong oxidizing agents.
Decomposition Products may Include:	Thermal decomposition products are dependent on combustion conditions. A complex mixture of airborne solid, liquid, particulates and gasses may evolve when the material burns. Combustion byproducts may include: oxides of carbon, oxides of zinc incompletely burned hydrocarbons as fumes and smoke.
Conditions to Avoid:	Avoid contact with incompatible materials and exposure to extreme temperatures.
Polymerization:	This product is not expected to polymerize.
Stability:	This product is stable.

<b>Section 7 - Spill or Leak Procedures</b>
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**Clean-Up Measures:**

Important:	As with any spill or leak, before responding ensure that you are familiar with the potential hazards and recommendations of the MSDS. Appropriate personal protective equipment must be worn. See Section 8 of this MSDS for PPE recommendations.  If possible, safely contain the spill with dikes or other spill response equipment appropriate for petroleum or organic material releases. Take measures to prevent spreading of product. Note that while product will ignite, it will not readily burn.
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However, as a precaution eliminate ignition sources. Prevent from entering sewers or waterways. Large volumes may be transferred to an appropriate container for proper disposal. Small volumes or residues may be soaked up with absorbents. Spill response materials should be collected for proper disposal.

**Waste Disposal:** Ensure that collection, transport, treatment, and disposal of waste product, containers and rinsate complies with all applicable laws and regulations. Note that use, mixture, processing, or contamination of the product may cause the material to be classified as a hazardous waste. It is the responsibility of the product user or owner to determine at the time of disposal, whether the product is regulated as a hazardous waste.

### Section 8 - Special Protection Information

**Personal Protective Equipment:** Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

**Eye Protection:** Wear eye protection appropriate to prevent eye exposure. Where splashing is not likely, chemical safety glasses with side shields are recommended. Where splashing may occur, chemical goggles or full face shield is recommended.

**Skin Protection:** Gloves are not normally needed during normal conditions of use. If health effects are experienced, oil or chemical resistant gloves such as butyl or nitrile are recommended.

Where splashing or soaking is likely, wear oil or chemical resistant clothing to prevent exposure.

**Respiratory Protection:** A respirator may be worn to reduce exposure to vapors, dust, or mist. Select a NIOSH/MSHA approved respirator appropriate for the type and physical character of the airborne material. A self-contained breathing apparatus is recommended in all situations where airborne contaminant concentration has not been confirmed to be below safe levels. Respirator use should comply with the OSHA Respirator Protection Standard found in 29 CFR 1910.134.

**Engineering Controls:** Normal general ventilation is expected to be adequate. It is recommended that ventilation be designed in all instances to maintain airborne concentrations at lowest practicable levels. Ventilation should at a minimum, prevent airborne concentrations from exceeding any exposure limits listed in Section 2 of this MSDS.

The user may wish to refer to 29 CFR 1910.1000 (d) (2) and the ACGIH "threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices: (Appendix C) for the determination of exposure limits of mixtures. An industrial hygienist or similar professional may be consulted to confirm that the calculated exposure limits apply.

### Section 9 – Special Precautions

**Handling:** As with any industrial chemical, handle the product in a manner that minimizes exposure to practicable levels. Prior to handling, consult Section 8 of this MSDS to evaluate personal protective equipment needs. Open containers slowly to relieve any pressure. Follow all other standard industrial hygiene practices.  
Empty containers may contain product residue. All safety precautions taken when handling this product should also be taken when handling empty drums and containers. Keep containers closed when not in use.

Product residue in empty containers is combustible but will not readily burn. NOTE however, that excessive heating or cutting of empty containers may create an ignition source sufficient to start a fire and in extreme cases, cause an explosion.

**Storage:** Protect product quality by storing indoors and away from extreme temperatures. Close all containers when not in use.

**Special Comments:** No further data known.

### Section 10 – Regulatory Information

**DOT Hazardous Material Information:** Not regulated by U.S. DOT unless shipped in pressurized containers. See bill of lading for proper DOT classification of pressurized containers.

**Federal Regulations:**

**SARA 313:** This product contains the following substances subject to the reporting requirements of Section 313 Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
Zinc Oxide      CAS # 1314-13-2      Pct by Wt: <5

**CERCLA Reportable Quantity:** Any components listed below have been assigned a reportable quantity (RQ) by the Federal EPA. Releases of the product into the environment that exceed the RQ for a particular component must be reported to the National Response Center at 1-800-424-8802.

\_\_\_\_\_**Component**\_\_\_\_\_ **RQ** \_\_\_\_\_  
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Toxic Substances Control Act: The components of this product are listed on the TSCA Inventory.

Ozone Depleting Substances: This product contains no ozone depleting substances as defined by the Clean Air Act.

Hazardous Air Pollutants: Any components listed below are defined by the Federal EPA as hazardous air pollutants.

\_\_\_\_Component\_\_\_\_  
\* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \* \_ \*

State Regulations: No further data known.

### Section 11 - Other Information

UNK: means unknown  
EST: means estimated  
N/A: means not applicable

### Disclaimer

GC Electronics believes that the information contained herein is accurate and reliable as of the date of this material safety data sheet, but no representation guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Persons receiving this information are encouraged to make their own determination as to the information's suitability and completeness for their particular application. NO INFORMATION CONTAINED HEREIN CONSTITUTES A PRODUCT WARRANTY OF ANY KIND, WHETHER EXPRESS OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANT ABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.