

MATERIAL SAFETY DATA SHEET

Section 1 – Product & Company Identification

Product Name.....: 700 Power Drive Gear Grease

Company Name.....: Ridge Tool Company

Address: 400 Clark Street

.....: Elyria, Ohio 44035-6001

Telephone: 1-800-519-3456 (USA) (8:00 am – 5:00 pm EST, M-F)

Emergency Telephone: call 9-1-1 or local emergency number

Website: www.RIDGID.com

Issue Date: August 14, 2013

Section 2 – Hazards Identification

EMERGENCY OVERVIEW:

Not regarded as a health hazard under current legislation. Exposure to vapors generated at high temperatures may cause respiratory irritation. Seek medical attention immediately if ingested.

POTENTIAL HEALTH EFFECTS AND SYMPTOMS FROM SHORT TERM / ACUTE EXPOSURE:

- **Eye**
Symptoms of slight eye irritation may result when direct contact occurs, or when exposed to high mist levels in poorly ventilated areas.
- **Skin**
Short term skin contact is not expected to cause skin irritation. Prolonged or repeated direct exposure to the skin may result in drying of the skin.
- **Inhalation:**
This product has low volatility and so is not expected to cause respiratory tract irritation during normal conditions of use. Exposure to vapors generated at high temperatures may cause respiratory irritation, nausea, and headaches.
- **Ingestion:**
Ingestion may cause stomach irritation and vomiting.

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- Potential Chronic Health Effects
No further data known.
- Medical Conditions Aggravated By Exposure:
No further data known.
- Carcinogenicity:
This product is not listed as a known or suspected carcinogen by IARC, OSHA or the NTP.

HMIS RATING:

Health	Flammability	Reactivity	PPE
1	1	0	B

Section 3 – Composition / Information On Ingredients

Components listed in this section may contribute to the potential hazards associated with exposure to the concentrate.

<u>Component:</u>	<u>CAS #</u>	<u>% By Weight</u>
Petroleum Based Oil	Mixture	80-93%
Lithium Complex Thickener	Proprietary	5-12%
Phosphorodithioic Acid O, O-DI-C1-14-Alkyl Esters, Zinc Salts	68649-42-3	1-2%
Antimony Dialkydithiocarbamate	Proprietary	<0.3%

Section 4 – 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 symptoms of exposure persist, contact a physician.

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INHALATION:

If respiratory irritation or distress occurs, remove the employee to fresh air. For breathing difficulties, oxygen may be necessary. Contact a physician or other medical professional if irritation or distress persists.

INGESTION:

Do not induce vomiting without medical supervision. Seek medical attention immediately.

Section 5 – Fire Fighting Measures

FIRE AND EXPLOSIVE PROPERTIES:

Flashpoint.....: 435°F COC
Flammability Limits: LEL - N/A
UEL - N/A

EXTINGUISH MEDIA:

Dry chemical, foam or CO₂ fire extinguishers, sand, and dolomite are all acceptable.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Volume and pressure increase strongly when heated. Risk of container explosion in fire.

FIRE-FIGHTING PROCEDURES AND EQUIPMENT:

Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures.

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Section 6 – Accidental Release Measures

PERSONAL PRECAUTIONS:

Use personal protection recommended in Section 8. Minimize skin contact.
Avoid breathing vapors. Removes sources of ignition.

ENVIRONMENTAL:

This material is a water pollutant. Do not let spilled or leaking material enter waterways. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Assure conformity with applicable governmental regulations.

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.

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. 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.

Section 7 – Handling And Storage

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.

Keep away from heat, sparks, and open flames. Keep containers closed when not in use.

STORAGE:

Protect product quality by storing indoors and away from extreme temperatures, acids, and oxidizing materials. Close all containers when not in use.

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Section 8 – Exposure Controls / Personal Protection

EXPOSURE GUIDELINES:Component

Oil	ACGIH TWA:	5 mg / m ³ (as mist)
	ACGIH STEL:	10 mg / m ³ (as mist)
	OSHA TWA:	5 mg / m ³ (as mist)
Antimony	ACGIH TWA:	0.5 mg / m ³ (as Sb)
Dialkydithiocarbamate	OSHA TWA:	0.5 mg / m ³ (as Sb)

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.

PERSONAL PROTECTIVE EQUIPMENT:

- **Eye Protection**
Wear eye protection appropriate to prevent eye exposure.
- **Skin Protection**
Appropriate gloves and clothing are required for prolonged or repeated contact.
- **Respiratory Protection**
No special requirements under ordinary conditions of use and with adequate ventilation.

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.

- **General Hygiene Considerations**
Wash thoroughly after handling.

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Section 9 – Physical And Chemical Properties

Physical Appearance:.....: Grease
Color:.....: Amber
Odor.: Mild Petroleum
Physical State.....: Semi-Solid
Water Solubility.....: Insoluble
Specific Gravity.....: 0.90
Vapor Density.....: > 5
Vapor Pressure.....: < 0.1 mm Hg
Evaporation Rate.....: < 1

Section 10 – Stability And Reactivity

STABILITY:

Normally stable.

CONDITIONS TO AVOID:

Avoid contact with incompatible materials and exposure to extreme temperatures.

INCOMPATIBLE MATERIALS:

This product is incompatible with acids and oxidizing substances.

DECOMPOSITION PRODUCTS MAY INCLUDE:

Combustion by-products may include:

oxides of carbon, phosphorus, sulfur

POSSIBILITY OF HAZARDOUS REACTIONS:

This product is not expected to polymerize.

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Section 11 – Toxicological Information

ACUTE: No further toxicological data known.

CHRONIC: No further toxicological data known.

SENSITIZATION: No further toxicological data known.

REPRODUCTIVE EFFECTS: No further toxicological data known.

TERATOGENIC EFFECTS: No further toxicological data known.

MUTAGENICITY: No further toxicological data known.

SYNERGISTIC MATERIALS: No further toxicological data known.

CARCINOGENICITY: This product is not listed as a known or suspected carcinogen by IARC, OSHA or the NTP.

Section 12 – Ecological Information

ECOTOXICOLOGICAL INFORMATION:

This product has not been evaluated for ecotoxicity. As with any industrial chemical, exposure to the environment should be prevented and minimized wherever possible.

ENVIRONMENTAL FATE:

The degree of biodegradability and persistence of this product has not been determined.

Section 13 – Disposal Consideration

WASTE DISPOSAL:

Ensure that collection, transport, treatment and disposal of waste product and containers comply 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.

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Section 14 – Transportation Information

DOT Hazard Class	Not regulated
Reportable Quantity (RQ)	No
TDGR Class	Not regulated
Sea Transport Notes	Not regulated per IMDG
Air Transport Notes	Not regulated per IATA

Section 15 – Regulatory Information

FEDERAL REGULATIONS:

<u>Component:</u>	<u>SARA 302</u>	<u>CERCLA</u>	<u>SARA 313</u>
Petroleum Based Oil	No	No	No
Lithium Complex Thickener	No	No	No
Phosphorodithioic Acid O, O-DI-C1-14-Alkyl Esters, Zinc Salts	No	***	N982-Zn
Antimony Dialkydithiocarbamate	No	***	N010-Sb

*** indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section 313.

The components of this product are listed on the TSCA Inventory.

STATE REGULATIONS

This product does not contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as causing cancer or reproductive toxicity, and for which warnings are now required.

CANADA

WHMIS – Not a controlled product.

All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).



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Section 16 – Other Information

Prepared by:..... Ridge Tool Company

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