MATERIAL SAFETY DATA SHEET

Section 1 – Product & Company Identification

Product Name.....:	RIDGID Synthetic Transmission 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 .....:	September 5, 2013

Section 2 – Hazards Identification

EMERGENCY OVERVIEW:

This product is a semi-solid that is insoluble in water and, under normal use, does not pose a health risk. 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.

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

- Eye
  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.

- Skin
  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. High pressure injection may cause serious damage.

- Inhalation:
  This product has low volatility and so is not expected to cause respiratory tract irritation during normal conditions of use.

- 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 a known or suspected carcinogen by IARC, OSHA or the NTP.

HMIS RATING:

Health	Flammability	Reactivity
0	1	0

Section 3 – Composition / Information On 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.

Component:	CAS #	% By Weight
Zinc Dithiophosphate	68649-42-3	< 2.5%

Section 4 – First Aid Measures

EYE CONTACT:

Upon direct 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. Remove contaminated clothing and launder before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury. Contaminated clothing should be removed to prevent prolonged exposure. If symptoms of exposure persist, contact a physician.

INHALATION:

Under normal conditions, minimal or no irritation due to inhalation of vapor / mist is expected.

INGESTION:

First aid is normally not required. Seek medical attention if discomfort occurs.

Section 5 – Fire Fighting Measures

FIRE AND EXPLOSIVE PROPERTIES:

Flashpoint.....:	400°F (estimated) (COC)
Flammability Limits.....:	LEL - N/A
	UEL - N/A

EXTINGUISH MEDIA:

In accordance with NFPA guidance, dry chemical, foam, water fog, or CO_2 fire extinguishers are all acceptable. DO NOT USE straight streams of water.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

No further data known.

FIRE-FIGHTING PROCEDURES AND EQUIPMENT:

Emergency responders in the danger area should wear 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 6 – Accidental Release Measures

PERSONAL PRECAUTIONS:

Avoid contact with spilled material. Use personal protection recommended in Section 8.

ENVIRONMENTAL:

This material is a water pollutant. Do not let spilled or leaking material enter waterways.

CLEAN-UP MEASURES:

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 appropriate spill response equipment. Take measures to prevent spreading of product. Prevent from entering sewers or waterways. Allowed spilled material to solidify and scrape up with shovel into a suitable container for recycle or 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. Prevent small spills and leakage to avoid slip hazards. Follow all other standard industrial hygiene practices. This material is not a static accumulator.

STORAGE:

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

Section 8 – Exposure Controls / Personal Protection

EXPOSURE GUIDELINES:

This product does not contain components which have recognized exposure limits.

ENGINEERING CONTROLS:

It is recommended that ventilation be designed in all instances to maintain airborne concentrations at lowest practicable levels.

Product Name.....: RIDGID Synthetic Transmission Grease

PERSONAL PROTECTIVE EQUIPMENT:

- Eye Protection
  Where contact may occur, chemical safety glasses with side shields are recommended.

- Skin Protection
  Chemical/oil resistant gloves and clothing is recommended. In accordance with good industrial hygiene practices, skin exposure should be avoided.

- Respiratory Protection
  A respirator is not generally needed during normal use, however, one may be worn to reduce exposure. Select a NIOSH/MSHA approved respirator appropriate for the type and physical character of the airborne material.

- General Hygiene Considerations
  Wash thoroughly after handling.

Section 9 – Physical And Chemical Properties

Physical Appearance:.....: Red Grease
Odor. .....: Characteristic
Physical State.....: Semi-Solid
Water Solubility.....: Negligible
Specific Gravity.....: 0.87
VOC ……: < 1.0%

Section 10 – Stability And Reactivity

STABILITY:
This product is stable at room temperature.

CONDITIONS TO AVOID:
Avoid contact with incompatible materials, exposure to extreme temperatures, and ignition sources.

INCOMPATIBLE MATERIALS:
This product is incompatible with strong oxidizing agents.

DECOMPOSITION PRODUCTS MAY INCLUDE:
Aldehydes, oxides of carbon, smoke, fume, sulfur oxides, incomplete combustible products.

POSSIBILITY OF HAZARDOUS REACTIONS:
This product is not expected to polymerize

Section 11 – Toxicological Information

ACUTE:

Route of Exposure	Conclusion / Remarks
Inhalation	
Toxicity (Rat): LC50 > 5000 mg/m^3	Minimally Toxic. Based on test data for structurally similar materials.
Ingestion	
Toxicity (Rat): LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Skin	
Toxicity (Rabbit): LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.

CHRONIC: No significant health effects expected.

SENSITIZATION: Not sensitizing in test animals.

REPRODUCTIVE EFFECTS: None.

TERATOGENIC EFFECTS: None.

MUTAGENICITY: None.

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:

Not expected to be harmful to aquatic organisms.

ENVIRONMENTAL FATE:

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

VOC CONTENT:

< 1.0%

Section 13 – Disposal Consideration

WASTE DISPOSAL:

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

Ensure that collection, transport, treatment and disposal of waste product and containers 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 14 – Transportation Information

Not U.S. DOT, TDG (Canada), SEA (IMDG), or AIR (IATA) regulated.

Section 15 – Regulatory Information

FEDERAL REGULATIONS:

SARA 313:

This product contains substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Zinc Dithiophosphate	CAS No. 68649-42-3	< 2.5%

SARA 311 / 312 Reportable Hazard Categories:
None

OSHA HAZARD COMMUNICATION STANDARD
When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

EPCRA:
This material contains no extremely hazardous substances.

The following components are cited on the lists below:

Chemical Name	CAS Number	List Citations
Diphenylamine	122-39-4	5, 18
Naphthenic Acids, Zinc Salts	12001-85-3	15
Zinc Dithiophosphate	68649-42-3	13, 15, 17
Zinc Neodecanoate	27253-29-8	15

--REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Section 16 – Other Information

Prepared by:. . . . . Ridge Tool Company

Issue Date: . . . . . September 5, 2013
Last Revision Date: . . . . . September 14, 2011

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