MATERIAL SAFETY DATA SHEET

Section 1 – Product & Company Identification

Product Name.....:	RIDGID Endura-Clear Thread Cutting Oil
Product Catalog No. .....:	32803, 32808, 32813, 32818
Company Name.....:	Ridge Tool Company
Address .....:	400 Clark Street
:	Elyria, Ohio 44035
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 8, 2011

Section 2 – Hazards Identification

EMERGENCY OVERVIEW:

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

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 and redness 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 symptoms of irritation and redness. In severe cases, prolonged or repeated contact may result in dermatitis accompanied by symptoms of irritation, itching, dryness, cracking and/or inflammation.

- 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 or vapor levels in poorly ventilated areas may cause upper respiratory tract irritation and difficulty breathing.

- Ingestion:
  Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

- 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 – 1 Flammability – 1 Reactivity - 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
Mineral Oil	proprietary	> 90
Zinc Compounds	proprietary	< 5

This product does not contain silicone.

Product Name.....: RIDGID Endura-Clear Thread Cutting Oil

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 irritation is due to exposure to mist or vapors, remove the individual to fresh air. If irritation persists, flush the eyes with clean water until the irritation subsides. If symptoms persist, contact a physician.

SKIN CONTACT:

In case of contact, immediately wash skin with mild soap and water. Remove contaminated clothing and shoes. If symptoms of exposure persist, contact a physician. Discard or thoroughly wash clothing and shoes before reuse.

INHALATION:

Inhalation is not an expected route of exposure. If respiratory irritation occurs, remove the employee to fresh air. If symptoms of exposure persist, contact a physician.

INGESTION:

If ingested, dilute stomach contents with two glasses of water or milk. (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 persist, seek medical attention.

Section 5 – Fire Fighting Measures

FIRE AND EXPLOSIVE PROPERTIES:

Flashpoint.....: 350°F Cleveland Open Cup
Flammability Limits.....: LEL - Not determined
UEL - Not determined
Autoignition Temperature...: Not determined

EXTINGUISH MEDIA:

In accordance with NFPA guidance, dry chemical, foam or CO2 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.

HAZARDOUS COMBUSTION PRODUCTS:

Combustion by-products may include oxides of carbon, oxides of calcium, oxides of sulfur, zinc, and incompletely burned hydrocarbons as fumes and smoke.

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.

SENSITIVE TO STATIC DISCHARGE: No.

SENSITIVITY TO IMPACT: No.

Section 6 – Accidental Release Measures

PERSONAL PRECAUTIONS:

Use personal protection recommended in Section 8.

ENVIRONMENTAL PECAUTIONS:

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

CONTAINMENT MEASURES:

Stop the flow of material. 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.

CLEAN-UP MEASURES:

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 in accordance with appropriate waste regulations.

Product Name.....: RIDGID Endura-Clear Thread Cutting Oil

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.

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.

Section 8 – Exposure Controls / Personal Protection

EXPOSURE GUIDELINES:

Component

Mineral Oil	ACGIH TLV: ACGIH STEL: OSHA PEL:	5 mg / m3 (as mist) 10 mg / m3 (as mist) 5 mg / m3 (as mist
Zinc Compounds	ACGIH TLV: OSHA PEL: NIOSH REL:	5 mg / m3 5 mg / m3 (resp. dust) 15 mg / m3 (total dust) 5 mg / m3 (fume) 5 mg / m3 (dust)

ENGINEERING CONTROLS:

Good 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 shown above.

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. Employees should be properly trained to use appropriate PPE when working with this product.

- 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
  Oil or chemical resistant gloves 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.

Product Name.....: RIDGID Endura-Clear Thread Cutting Oil

Section 9 – Physical And Chemical Properties

Physical Appearance:.....:	Clear Amber
Odor. .....:	Characteristic
Physical State.....:	Liquid
Water Solubility.....:	Insoluble
Specific Gravity.....:	0.930@60°F
Flashpoint.....…..:	350°F Cleveland Open Cup
Flammability Limits.....…..:	LEL - not available UEL- not available
VOC ……:	15.5%

Section 10 – Stability And Reactivity

CHEMICAL STABILITY:

This product is stable at room temperature.

CONDITIONS TO AVOID:

Avoid exposure to extreme temperatures.

INCOMPATIBLE MATERIALS:

This product is incompatible with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

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 by-products may include, oxides of carbon, oxides of calcium, oxides of sulfur, zinc, and incompletely burned hydrocarbons as fumes and smoke.

HAZARDOUS POLYMERIZATION:

This product is not expected to polymerize.

Product Name.....: RIDGID Endura-Clear Thread Cutting Oil

Section 11 – Toxicological Information

ACUTE:

Oral LD_{50}: Not determined
Inhalation LC_{50}: Not determined

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.

VOC CONTENT:

15.5%

Section 13 – Disposal Consideration

WASTE DISPOSAL:

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. These statements apply to the product as supplied. 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

U.S. DOT HAZARDOUS MATERIAL INFORMATION:

This material is not DOT regulated.

CANADA TRANSPORT OF DANGEROUS GOODS:

This material is not TDG regulated.

Section 15 – Regulatory Information

FEDERAL REGULATIONS:

SARA 313:

This product contains the following substance 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 Compounds
CAS# proprietary % by weight: < 5

CLEAN WATER ACT / OIL POLLUTION ACT:

This product contains mineral oil and is subject to regulation by Section 311 of the Clean Water Act and the Oil Pollution Act. Releases of the product into or leading to surface waters must be reported to the National Response Center at 1-800-424-8802.

FEDERAL REGULATIONS (CONT.):

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.

None to report

TOXIC SUBSTANCE 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:

None to report

STATE REGULATIONS

This product contains mineral oil, and as used, may be regulated by state used oil regulations. Check with the appropriate state agency to determine whether such a regulation exists.

California Proposition 65 : This product does not contain any chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

CANADA

WHMIS Classification: Not controlled under WHMIS

Product Name.....: RIDGID Endura-Clear Thread Cutting Oil

Section 16 – Other Information

Prepared by:. . . . . Ridge Tool Company

Issue Date: . . . . . September 8, 2011
Last Revision Date: . . . . . September 30, 2009

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