MATERIAL SAFETY DATA SHEET

Section 1 – Product & Company Identification

Product Name..... :	RIDGID Extreme Performance Aerosol Threading Oil
Product Catalog No. ..... :	22088
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 8, 2013

Section 2 – Hazards Identification

EMERGENCY OVERVIEW:

This product, in its container, is a combustible aerosol. NOTE: Do not expose container to temperatures above 120°F. Do not use near heat, sparks, open flame or other ignition source.

Eye contact may cause moderate irritation. Short term skin contact may cause moderate irritation. Short term inhalation of high vapor or mist levels may irritate the upper respiratory tract. Ingestion is not an anticipated exposure route.

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 moderate eye irritation with stinging, tearing, redness and blurred vision may result upon direct contact or exposure to high mist levels in poorly ventilated areas.

- Skin
  Short term skin contact may cause moderate 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. The propellant in this product may cause frostbite if sprayed directly on the skin.

- Inhalation:
  This product 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. Severe exposure to high mist or vapor levels may cause CNS effects with symptoms of headache, drowsiness, lack of coordination, dizziness and unconsciousness. In extreme cases, severe over-exposure may result in unconsciousness or death.

- 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	Flammability	Reactivity	PPE
2	4	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
Propane	74-98-6	7-13
Butane	106-97-8	7-13
Mineral Oil	64742-54-7	15-40
Heavy Paraffinic Oil	64742-65-0	10-30
Zinc Compounds	Proprietary	1-5

This product does not contain silicone.

Product Name.....: RIDGID Extreme Performance Aerosol Threading 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:

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.

INHALATION:

If respiratory irritation or distress occurs, remove the individual to fresh air. Contact a physician or other medical professional if irritation or distress persists.

INGESTION:

If ingested, do not induce vomiting. Get medical attention immediately.

Section 5 – Fire Fighting Measures

FIRE AND EXPLOSIVE PROPERTIES:

Flashpoint.....: < 0 °F (-18 °C)
Flammability Limits.....: LEL 1.9
UEL 9.5

NFPA Rating

Flammability	Health	Reactivity	Special
4	3	0	-

EXTINGUISH MEDIA:

Foam, dry chemical, CO2 fire extinguishers are all acceptable and may be used in areas where it is stored. Water may be ineffective. If water is used, fog nozzles are preferable.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Aerosol container (pressurized) may burst if heated over 120°F.

During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention.

Important: The thread cutting oil can burn but will not readily ignite. Vapors are heavier than air and may travel long distances along the ground and reach ignition sources. Eliminate fire hazard by extinguishing ignition sources (flames, pilot lights, spark sources) prior to responding. Vapors may collect in low areas, sewers and confined spaces. Areas where vapors may collect should be ventilated properly.

FIRE-FIGHTING PROCEDURES AND EQUIPMENT:

Water may be used to cool closed containers to prevent pressure build-up and prevent possible autoignition or explosion when exposed to extreme heat.
Do not allow run-off to enter sewers or public waterways. Emergency responders in the danger area should wear bunker gear and self-contained breathing apparatus. See Section 8 of the MSDS for other PPE to be worn as conditions warrant.

Section 6 – Accidental Release Measures

PERSONAL PRECAUTIONS:

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:

If possible, safely contain the spill with dikes or other spill response equipment appropriate for releases of petroleum based materials. Small volumes or residues may be soaked up with absorbents. Disposal of any spill response materials should meet appropriate waste regulations.

Remove all sources of ignition. Ventilate the area. Clean up spilled material with an inert absorbent.

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.

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. Follow all other standard industrial hygiene practices. Direct spray away from face. Replace cap when not in use.

Empty containers may contain product residue. All safety precautions taken when handling this product should also be taken when handling empty containers.

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. During use until all vapors are gone: Keep area ventilated – Do not smoke – Extinguish all flames, pilot lights, and heaters – Turn off stoves, electric tools, appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

STORAGE:

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120°F. Store in a cool (under 120°F.) dry location away from heat. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause the container to burst.

Protect product quality by storing indoors and away from extreme temperatures. Close all containers when not in use. Keep out of reach of children.

Product Name.....: RIDGID Extreme Performance Aerosol Threading Oil

Section 8 – Exposure Controls / Personal Protection

EXPOSURE GUIDELINES:

Component		
Propane	ACGIH TLV: OSHA PEL:	2500 PPM 1000 PPM
Butane	ACGIH TLV: OSHA PEL:	800 PPM 800 PPM
Mineral Oil	ACGIH TLV: OSHA PEL:	5 mg / m3 (as mist) 5 mg / m3 (as mist)
Heavy Paraffinic Oil	ACGIH TLV: OSHA PEL:	5 mg / m3 (as mist) 5 mg / m3 (as mist)
Zinc Compounds	No Information	

ENGINEERING CONTROLS:

Use only with adequate ventilation. Local exhaust is preferable. General exhaust is acceptable if the exposure to materials listed above is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, and 1910.108. 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.

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.

Product Name.....: RIDGID Extreme Performance Aerosol Threading Oil

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 un-perforated 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. For long, repeated contact or if health effects are experienced, 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 properly fitted organic vapor/particulate 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.

- General Hygiene Considerations
  Wash thoroughly with mild soap and water after handling.

- Other Precautions
  Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Product Name.....: RIDGID Extreme Performance Aerosol Threading Oil

Section 9 – Physical And Chemical Properties

Physical Appearance:.....: Clear Amber
Odor. .....: Mild Petroleum
Boiling Point.....: <0 – 34 °F (<-18 °C – 1 °C)
Melting Point.....: Not Available
Volitile Volume.....: 29%
Evaporation Rate.....: Faster than ether
Vapor Density.....: Heavier than air
Water Solubility.....: Not Available
pH.....: 7.0
Specific Gravity.....: .80
Volatile Organic Compounds (VOC Theoretical)
Volatile weight 20% less water and federally exempt solvents

Section 10 – Stability And Reactivity

STABILITY:
This product is stable at room temperature.

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

INCOMPATIBLE MATERIALS:
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 by-products may include:

Carbon Dioxide
Carbon Monoxide

Oxides of carbon

Oxides of calcium

Oxides of sulfur

Oxides of zinc

Incompletely burned hydrocarbons as fumes and smoke

Product Name.....: RIDGID Extreme Performance Aerosol Threading Oil

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

Section 11 – Toxicological Information

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

CHRONIC: Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

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 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.

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize the container. Dispose of in accordance with Federal, State/Provincial, and Local regulations.

Section 14 – Transportation Information

U.S. DOT HAZARDOUS MATERIAL INFORMATION:

U.S. Land Transportation
This product is packaged and marked to comply with D.O.T. ground transportation regulations as a "Consumer Commodity, ORM-D".

Air Transportation
This product is deemed a hazardous material for all air transportation (IATA).
UN1950, AEROSOLS, FLAMMABLE, 2.1

Water Transportation
This product is deemed a hazardous material for water transportation (IMDG).
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY.

Product Name.....: RIDGID Extreme Performance Aerosol Threading Oil

Section 15 – Regulatory Information

FEDERAL REGULATIONS:

SARA 313:

This product contains the following 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 Compounds	PCT by wt: < 5

CLEAN WATER 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.

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

Product Name : RIDGID Extreme Performance Aerosol Threading Oil

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.

CANADA

WHMIS Rating: A & D2B

DSL:

The components of this product are listed on DSL Inventory.

Section 16 – Other Information

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Prepared by:. . . . . Ridge Tool Company

Issue Date: . . . . . August 8, 2013
Last Revision Date: . . . . . June 16, 2009