MATERIAL SAFETY DATA SHEET

Non hazardous according to criteria of NOHSC Australia.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name:	RIDGID Nuclear Thread Cutting Oil - Australia
Product Catalog No.:	11461, 11481, 41585
Synonyms:	
Use:	Thread Cutting Oil. Not to be used as a lubricating oil.
Supplier:	Ridge Tool (Australia) Pty Ltd
ABN:	96 008 446 482
Street Address:	80-82 Melora Way Campbellfield VIC 3061 Australia
Telephone:	+613 9357-0877
Facsimile:	+613 9357-0866
Emergency telephone number:	+613 9357-0877 (8 am – 5pm, Monday to Friday)
MSDS issue date:	January 5, 2006

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical	ENTITY CAS NO.	PROPORTION
Paraffinic Mineral Oil	64742-54-7	> 95%
Sulfur Package Addition	Mixture	< 5%
		100%

3. HAZARDS IDENTIFICATION

Hazard Category: Based on available information, this material is not classified as hazardous according to criteria of NOHSC Australia.

HIMS Rating: Health – 1 Flammability – 1 Reactivity – 0

Risk Phrase(s)

This product is a liquid that is insoluble in water.
Direct eye contact may cause temporary 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.

Poisons Schedule (Aust): Not considered as per criteria of the SUSPP.

Carcinogenicity: This product is not listed as a known carcinogen.

4. FIRST AID MEASURES

Inhalation: Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs, remove individual to fresh air. Contact a physician or other medical professional if irritation or distress persists.

Skin Contact: Remove product from the skin by washing with a mild soap and water. Contaminated clothing should be removed to prevent prolong exposure. If symptoms of exposure persist, contact a physician.

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.

Ingestion: If small amounts are ingested, first aid measures are not likely to be necessary. If larger amounts are ingested or if symptoms of ingestion occur, 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 of ingestion persist, seek medical attention.

Notes to physician: No further data known.

5. FIRE-FIGHTING MEASURES

Specific hazards: None known.

Fire fighting further advice: 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 condition warrant.

Suitable extinguishing media: 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.

6. ACCIDENTAL RELEASE MEASURES

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 is combustible, it will not readily burn. However, as a precaution, eliminate ignition sources. Prevent from entering sewers or waterways.

SMALL SPILLS Small volumes or residues may be soaked up with absorbents. Spill response materials should be collected for proper disposal.

LARGE SPILLS Large volumes may be transferred to an appropriate container for proper disposal.

7. HANDLING AND STORAGE

Handling: As with any industrial chemical, handle the product in a manner that minimizes exposure to practical 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC Australia).

However for:

	TWA	STEL	CARCINOGEN CATEGORY	NOTICES
Mineral Oil	8 hr ACGIH TWA PEL of 5mg/m3 (as mist)	15 minutes ACGIH STEL TVL of 10 mg/m3 (as mist)	Product Contains no carcinogens	

As published by the National Occupational Health & Safety Commission (NOHSC Australia).

TWA – The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour work day.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Engineering measures: Normal general ventilation is expected to be adequate. It is recommended that ventilation be designed in all instances to maintain airborne concentrations at lowest practical levels. Ventilation should at a minimum, prevent airborne concentrations from exceeding any exposure limits listed in Section 8 of this MSDS.

Personal protection equipment:

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 is unknown and may be above safe levels.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Color / Odour:	Liquid Clear Yellow Mild Petroleum
Molecular formula:	Non-Applicable
Solubility:	Insoluble
Specific Gravity (20°C):	.878
Relative Vapour Density (air =1):	1
Vapour Pressure (20°C):	.01 (mm Hg)
Flash Point:	196 °C Cleveland Open Cup
Odour Threshold:	N App
Flammability Limits (%):	LEL – N Av UEL – N Av
Autoignition Temperature (°C):	N Av
Explosive Properties:	N Av
Oxidizing Properties:	N App
% Volatile by Volume:	< 0.1
Solubility in water (g/L):	Insoluble
Melting Point/Range (°C):	N App
Boiling Point/Range (°C):	.21
Decomposition Point (°C):	N App
Sublimation Point (°C):	N Av
pH:	N Av
Viscosity:	N Av
Surface Tension:	N Av
Evaporation Rate (n-Butyl acetate=1):	1
Partition Coefficient:	N Av

(Typical values only – consult specification sheet)
N Av = Not available N App = Non applicable

10. STABILITY AND REACTIVITY

INCOMPATIBILITIES: This product is incompatible with strong oxidizing agents and strong acids. May soften some rubbers and other elastomeric sealing materials.

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 sulfur,
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.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and over-exposure occurs are:

Acute Effects

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 upper respiratory tract irritation and difficulty breathing.
Skin Contact	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.
Eye Contact	This product is not expected to cause eye irritation under normal conditions of use. Symptoms of temporary eye irritation and redness may result upon direct contact or when exposed to high mist levels in poorly ventilated areas.
Ingestion:	Ingestion may cause slight stomach irritation and discomfort.
Long Term Effects:	No further toxicological data known.
Acute toxicity / Chronic toxicity	No further toxicological data known.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

ECOTOXICOLOGICAL INFORMATION

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

ENVIRONMENTAL FATE, PERSISTENCE AND DEGRADATION

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

AQUATIC TOXICITY

No further information available.

TERRESTRIAL TOXICITY

No further information available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

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

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14. TRANSPORT INFORMATION

Road and Rail Transport	Not considered a hazardous material.
Marine Transport	Not considered a hazardous material.
Air Transport	Not considered a hazardous material.

15. REGULATORY INFORMATION

Hazard Category:	Based on available information, this material is not classified as hazardous according to criteria of NOHSC Australia. HMIS Rating: Health – 1 Flammability – 1 Reactivity - 0
Risk Phrase(s):	This product is a liquid that is insoluble in water. Direct eye contact may cause temporary 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.
Safety Phrase(s):	
Poisons Schedule (Aust):	Not applicable/S
Ozone Depleting Substances:	This product contains no ozone depleting substances as defined by current standards.
Regulations:	This product contains mineral oil and, as used, may be regulated by used oil regulations. Check with the appropriate agency to determine whether such a regulation exists.

This material is listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Literary reference

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This MSDS summarizes at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Ridge Tool (Australia) Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.