

## Section 1 - Identification

**Product Identifier:** Re-Li-On Cutting and Tapping Fluid

**Supplier Phone:** 239-593-6866

**Supplier:** Remi Corporation

**Emergency Phone & Hours:** 239-593-6866 24 hrs, 7 days/week

**Supplier Address:** 5795 WASHINGTON ST.  
UNIT #2  
NAPLES, FL 34109  
USA

**Intended Use** Industrial Metal Working or Machine Oil for use in systems which may generate mist in air.

**Uses To Avoid** Non-Industrial uses.

## Section 2 - Hazard Identification

**Signal Word:** WARNING

Other than flammability, no specific data exists for this mixture. Hazard classifications are calculated based on component information.

**Hazard Classifications:**

**Substance Or Mixture** Mixture

**Hazard Statements based on component information:**

**HAZARDS:** Eye contact causes mild eye irritation.

**Precautions:**

Do not handle until all safety instructions are understood. Wear protective clothing, gloves, and eye protection before handling. Use only with adequate ventilation. Avoid breathing fumes or mist.

**Pictograms:**

(Area to right is blank if no pictograms apply)

**Other Hazards Not Resulting In Classification:** May be hazardous to soil dwelling organisms.

**Summary:** Read entire SDS prior to use. Observe all precautions. Use engineering controls to minimize human exposure to workplace chemicals.

**Section 3 - Composition / Information on Ingredients**

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Component	CAS Number	% Range	
NAPHTHENIC DISTILLATES	64742-52-5	60 - 100	Exact percentages and component identities are being withheld as trade secrets. Occupational Exposure Levels, Toxicity, and Ecological information on components is shown in Sections 8, 11, and 12 below. Users should read and understand the entire SDS. More specific information on components will be released to medical professionals in case of emergency.
HYDROTREATED PARAFFINIC DISTILLATE	64742-65-0	15 - 40	
RADE SECRET COMPONENT	63-449-39-8	5 - 15	
TRIGLYCERIDE OF FATTY ACIDS	120962-03-0	5 - 15	
CHLORINATED FATTY ACID MIXTURE	61788-76-9	1 - 5	
ALKYLMERCAPTOTHIADIAZOLE	NONE	< 1	

**Section 4 - First Aid Measures:**

First responders should wear clothing appropriate for industrial exposure in accordance with local codes. At a minimum, all exposed skin should be covered, and latex gloves and eye protection meeting ANSI Z87 or CSA Z94.3 should be worn. First responders should avoid contact with spilled material. Spills of this material present a slip hazard. If smoke, fumes, or airborne mist is present, first responders should use organics respirator or self-contained breathing apparatus.

**IF SWALLOWED:** Get immediate medical attention. Call poison control center.

**IF INHALED:** Remove affected person to fresh air and make comfortable for breathing. Get immediate medical attention.

**IF IN EYES:** Rinse eyes with cool water. Get immediate medical attention. Call poison control center.

**IF ON SKIN:** Remove contaminated clothing. Wash immediately with soap and water. Get immediate medical attention.

**IF ON CLOTHES:** Do not allow skin contact with contaminated clothing. Remove contaminated clothing and wash before re-use.

**IF EXPOSED:** Contact physician if you feel unwell.

**Most Important Symptoms** ACUTE: Respiratory effects, vision effects. DELAYED: Dermatological effects.

**Indication of Immediate Medical Attention** Difficulty breathing, dizziness, extreme drowsiness, eye irritation, loss of vision, skin rash.

## Section 5 - Fire Fighting Measures:

**Appropriate Extinguishing Media** Avoid spraying water jet on burning hydrocarbon liquids as this may spread the fire. Use dry chemical or foam extinguishing media.

**Specific Fire Hazards** Fire fighters must be protected from smoke with self-contained breathing apparatus. Heavy smoke may obscure vision. Smoke may contain oxides of carbon, nitrogen, sulfur, and chlorine.

**Special Protective Actions** Use water spray to cool exposed containers.

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## Section 6- Accidental Release Measures:

### Personal Precautions

Spills present a slip hazard. Extinguish/disconnect possible sources of ignition near spill. Ensure adequate ventilation of fumes from affected area. Remove unnecessary personnel from area around spill. Prior to cleaning up, don protective gear including chemical and hydrocarbon resistant outer layer, latex or rubber gloves, rubber boots, and eye protection. Emergency responders should wear chemical and hydrocarbon resistant gear.

### Environmental Precautions

Small spills may be wiped up with rags. For spills >10 litres- if possible to safely do so, contain the spilled material using diatomaceous earth and/or absorbent pads. Dike drains and prevent material from entering sewers, ditches, drains, or water courses. Place absorbed material into sealed storage containers and consult an environmental expert for proper disposal measures. Immediately report any discharges that escape containment to the local environmental authority or fire department.

### Methods for Cleaning Up

Absorption with diatomaceous earth and/or absorbent pads is best. Do not use vacuum. Do not wash hydrocarbon or chemical spills away into sewers or drains. Use proper disposal methods for spent absorbents and contaminated rags or clothing.

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## Section 7- Storage and Handling:

### Precautions for Handling

Read and understand entire Safety Data Sheet prior to handling. Wear all appropriate protective gear prior to handling. Do not allow untrained personnel to handle this product. Handle with care to avoid spillage.

### Methods for Safe Storage

Store only in original containers. Store containers indoors away from heat and flames. Store in secure location with good ventilation. Keep container sealed when not transferring product. Protect from rain and extreme cold. Avoid storage of hydrocarbons near strong mineral acids or materials marked 'Oxidizer'.

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**Section 8- Exposure Controls/Personal Protection:**

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**Control Parameters**

No exposure limits are established for this mixture. Users should use lowest exposure value shown for components in this section.

**Component Information - Occupational Exposure Limits:**

NAPHTHENIC DISTILLATES	US ACGIH: TWA: 5 mg/m3, STEL: 10 mg/m3 (as Oil Mist, if generated); US OSHA: 5 mg/m3 TWA as Oil Mist, if generated
HYDROTREATED PARAFFINIC DISTILLATE	US ACGIH: TWA: 5 mg/m3, STEL: 10 mg/m3 (as Oil Mist, if generated); US OSHA: 5 mg/m3 TWA as Oil Mist, if generated
TRADE SECRET COMPONENT	None Established
TRIGLYCERIDE OF FATTY ACIDS	None Established
CHLORINATED FATTY ACID MIXTURE	None Established
ALKYLMERCAPTOTHIAZOLE	None Established

**Personal Protective Gear**

Workers exposed to airborne levels above threshold values shown above should use protective gear including safety glasses, latex gloves, long sleeve work shirts, long pants, hair covering, and work shoes having oil and chemical resistant soles. Similar protective gear should be worn when servicing equipment containing this material, or when draining and refilling equipment with fresh product.

**Engineering Controls**

Engineering controls should ensure adequate ventilation to keep airborne concentrations below threshold values shown above. Pumps and handling equipment should be designed to reduce human exposure potentials to liquids being transferred from containers into closed systems.

**Section 9- Physical Properties:**

<b>Appearance</b>	Clear to Hazy Liquid	<b>Upper Explosive Limit</b>	Not Determined
<b>Odor</b>	Low Indescript	<b>Lower Explosive Limit</b>	Not Determined
<b>Odor Threshold</b>	No Data Available	<b>Vapour Pressure</b>	Negligible
<b>pH</b>	N/A oil based	<b>Vapour Density</b>	>1 (air=1)
<b>Melting Point</b>	Liquid under intended use conditions	<b>Relative Density</b>	0.8-0.9 kg/l 60C
<b>Freezing Point</b>	0 to -20	<b>Solubility</b>	Hydrocarbons, Alcohols
<b>Initial Boiling Point</b>	>100 C	<b>Partition Coefficient</b>	Log KOW > 4 (mineral oil data)
<b>Boiling Range</b>	313C - 432C	<b>Auto Ignition Temp</b>	Not Determined
<b>Flash Point</b>	>93 C	<b>Decomposition Temp</b>	Not Determined
<b>Evaporation Rate</b>	<1 (n-butyl acetate =1)	<b>Viscosity cSt 40C</b>	>20.5 cSt 40C

**Section 10- Physical Properties:**

<b>Reactivity</b>	May react violently if combined with strong oxidizers and heat.
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Conditions to Avoid</b>	Keep away from fire, sparks, and other sources of ignition.
<b>Possibly Hazardous Reactions</b>	None known.
<b>Incompatible Materials</b>	Strong acids and materials marked 'Oxidizer'.
<b>Hazardous Decomposition Products</b>	Byproducts of combustion include carbon dioxide, carbon monoxide, oxides of sulfur, oxides of nitrogen, and heavy, acrid smoke.

**Section 11- Toxicological Information:****Symptoms of Exposure:**

<b>Likely Routes of Exposure</b>	Dermal, Eye, and Inhalation of mists. Intended use of product includes possibility of mist generation in air.
<b>Ingestion</b>	Ingestion of minimal amounts, e.g. failure to wash hands before eating/smoking, is unlikely to cause symptoms. Swallowing of liquid product may cause vomiting and nausea.
<b>Inhalation</b>	No symptoms are expected under intended use conditions. Exposure to concentrated fumes may cause transient hypoxia.
<b>Dermal/Eye</b>	Minimally irritating by dermal exposure. Eye exposure may cause transient stinging and blurred vision.
<b>Immediate or Delayed Effects</b>	Not expected from exposure to mineral or vegetable oils.
<b>Interactive Effects</b>	None Known

## Numerical Measures of Toxicity - components (all LD/LC/EC 50 values shown below are based on animal or fish data)

**Acute Oral Toxicity:** NAPHTHENIC DISTILLATES: LD50 5001 mg/Kg; HYDROTREATED PARAFFINIC DISTILLATE: Non Hazardous; TRADE SECRET COMPONENT: No Data Available; TRIGLYCERIDE OF FATTY ACIDS: LD50 5001 mg/Kg; CHLORINATED FATTY ACID MIXTURE: Non Hazardous; ALKYL MERCAPTOTHIAZOLE: Non Hazardous

**Acute Skin Toxicity:** NAPHTHENIC DISTILLATES: LD50 5001 mg/Kg; HYDROTREATED PARAFFINIC DISTILLATE: Non Hazardous; TRADE SECRET COMPONENT: No Data Available; TRIGLYCERIDE OF FATTY ACIDS: Non Hazardous; CHLORINATED FATTY ACID MIXTURE: Non Hazardous; ALKYL MERCAPTOTHIAZOLE: Non Hazardous

**Acute Toxicity Inhalation** NAPHTHENIC DISTILLATES: Non Hazardous; HYDROTREATED PARAFFINIC DISTILLATE: Non Hazardous; TRADE SECRET COMPONENT: No Data Available; TRIGLYCERIDE OF FATTY ACIDS: Non Hazardous; CHLORINATED FATTY ACID MIXTURE: No Data Available; ALKYL MERCAPTOTHIAZOLE: Non Hazardous

**Section 11- Toxicological Information: (continued)**

**Skin Corrosion:** NAPTHENIC DISTILLATES: No Data Available; HYDROTREATED PARAFFINIC DISTILLATE: Non Irritating; TRADE SECRET COMPONENT: Non Irritating; TRIGLYCERIDE OF FATTY ACIDS: Non Irritating; CHLORINATED FATTY ACID MIXTURE: No Data Available; ALKYL MERCAPTOTHIA DIAZOLE: Non Irritating

**Eye Corrosion:** NAPTHENIC DISTILLATES: Cat 2B Eye Irritant; HYDROTREATED PARAFFINIC DISTILLATE: Cat 2B Eye Irritant; TRADE SECRET COMPONENT: Cat 2B Eye Irritant; TRIGLYCERIDE OF FATTY ACIDS: Cat 2B Eye Irritant; CHLORINATED FATTY ACID MIXTURE: Cat 2B Eye Irritant; ALKYL MERCAPTOTHIA DIAZOLE: Non-Categorized, Suspected Eye Irritant

**Respiratory Sensitization:** NAPTHENIC DISTILLATES: No Data Available; HYDROTREATED PARAFFINIC DISTILLATE: Non Sensitizing; TRADE SECRET COMPONENT: Non Sensitizing; TRIGLYCERIDE OF FATTY ACIDS: Non Sensitizing; CHLORINATED FATTY ACID MIXTURE: No Data Available; ALKYL MERCAPTOTHIA DIAZOLE: No Data Available

**Skin Sensitization:** NAPTHENIC DISTILLATES: Non Sensitizing; HYDROTREATED PARAFFINIC DISTILLATE: Non Sensitizing; TRADE SECRET COMPONENT: Non Sensitizing; TRIGLYCERIDE OF FATTY ACIDS: Non Sensitizing; CHLORINATED FATTY ACID MIXTURE: No Data Available; ALKYL MERCAPTOTHIA DIAZOLE: No Data Available

**Germ Cell Mutagenicity:** NAPTHENIC DISTILLATES: No Data Available; HYDROTREATED PARAFFINIC DISTILLATE: No Hazard; TRADE SECRET COMPONENT: No Data Available; TRIGLYCERIDE OF FATTY ACIDS: No Hazard; CHLORINATED FATTY ACID MIXTURE: No Data Available; ALKYL MERCAPTOTHIA DIAZOLE: No Hazard

**Carcinogen:** NAPTHENIC DISTILLATES: No Hazard; HYDROTREATED PARAFFINIC DISTILLATE: No Hazard; TRADE SECRET COMPONENT: No Hazard; TRIGLYCERIDE OF FATTY ACIDS: No Hazard; CHLORINATED FATTY ACID MIXTURE: No Data Available; ALKYL MERCAPTOTHIA DIAZOLE: No Data Available

**Reproductive Effects:** NAPTHENIC DISTILLATES: No Hazard; HYDROTREATED PARAFFINIC DISTILLATE: No Hazard; TRADE SECRET COMPONENT: No Data Available; TRIGLYCERIDE OF FATTY ACIDS: No Hazard; CHLORINATED FATTY ACID MIXTURE: No Data Available; ALKYL MERCAPTOTHIA DIAZOLE: No Hazard

**Section 11- Toxicological Information: (continued)**

**Target Organ 1 Exposure:** NAPTHENIC DISTILLATES: No Hazard; HYDROTREATED PARAFFINIC DISTILLATE: No Hazard; TRADE SECRET COMPONENT: No Data Available; TRIGLYCERIDE OF FATTY ACIDS: No Hazard; CHLORINATED FATTY ACID MIXTURE: No Data Available; ALKYL MERCAPTOTHIAZOLE: No Data Available

**Target Organ Multiple Exposure:** NAPTHENIC DISTILLATES: No Hazard; HYDROTREATED PARAFFINIC DISTILLATE: No Hazard; TRADE SECRET COMPONENT: No Data Available; TRIGLYCERIDE OF FATTY ACIDS: No Hazard; CHLORINATED FATTY ACID MIXTURE: No Data Available; ALKYL MERCAPTOTHIAZOLE: No Data Available

**Aspiration Hazard:** NAPTHENIC DISTILLATES: No Hazard; HYDROTREATED PARAFFINIC DISTILLATE: No Hazard; TRADE SECRET COMPONENT: No Data Available; TRIGLYCERIDE OF FATTY ACIDS: No Hazard; CHLORINATED FATTY ACID MIXTURE: No Hazard; ALKYL MERCAPTOTHIAZOLE: No Data Available

**Other Information** No Other Information Available.

**Section 12- Ecological Information:**

**Ecological Summary** Hydrocarbon mineral oils, and non-petroleum oils, have low toxicity and are inherently biodegradable. See specific information below regarding aquatic toxicity data on components.

**Bioaccumulation** Hydrocarbon mineral oils, and non-petroleum oils, are inherently biodegradable and have low bioaccumulation potential. Specific information on components is shown below.

**Persistence & Degradability** Hydrocarbon mineral oils, and non-petroleum oils, are inherently biodegradable and are not persistent. OECD 301 values range from 50% to 95% in 28 days.

**Waste Treatment Effects** Product residues are not expected to enter publicly operated treatment works. No negative effects of this mixture are known.

**Soil Mobility** Mineral oils have been shown to adhere strongly to soil. Mobility is expected to be low.

**Other Adverse Effects** None Known

**Toxicity to aquatic organisms, component information:**

**Aquatic Toxicity, Acute:** NAPTHENIC DISTILLATES: No Data Available; HYDROTREATED PARAFFINIC DISTILLATE: Non Toxic; TRADE SECRET COMPONENT: No Data Available; TRIGLYCERIDE OF FATTY ACIDS: No Data Available; CHLORINATED FATTY ACID MIXTURE: No Data Available; ALKYL MERCAPTOTHIAZOLE: No Data Available

**Aquatic Toxicity, Long Term:**

NAPHTHENIC DISTILLATES: No Data Available; HYDROTREATED PARAFFINIC DISTILLATE: No Chronic Aquatic Toxicity; TRADE SECRET COMPONENT: No Data Available; TRIGLYCERIDE OF FATTY ACIDS: No Data Available; CHLORINATED FATTY ACID MIXTURE: No Data Available; ALKYL MERCAPTOTHIAZOLE: No Data Available

**Ozone:** This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by 40 CFR 82, Subpt. A, App.A + 8.

**Section 13- Disposal Considerations:**

**Disposal Containers & Methods** Unused material is not a RCRA hazardous waste. Mixture with other wastes may cause classification as hazardous waste. Users must determine compliance with local, state, and federal regulations for proper classification and disposal of used oils and mixtures thereof. Suitable containers include steel and polyethylene drums and totes, for containment of used oil. Secondary containment is advised. Containers should be kept sealed and protected from rain and exposure.

**Physical Chemical Properties Affecting Disposal** Changes in physical and chemical properties during use, such as contamination with lead, zinc, or other metals, may affect classification for disposal. Used oils should be tested to determine metals content and applicable local, state, and federal regulations governing disposal of such fluids.

**Improper Disposal** Discharging of oily wastes into any sewer, watercourse, or unregulated drain is discouraged as improper and may result in fines, penalties, cleanup costs, and criminal liabilities for responsible parties.

**Precautions for Landfill** Oily liquid should not be disposed in a landfill. Disposal of oily absorbents, rags, or other items into a landfill should only be done with proper permission from local, state, and federal authorities.

**Section 14- Transport Information:**

**US DOT 49 CFR Parts 171-180:**

**Proper Shipping Name** Not Regulated **UN/ID/NA Number:** NA nonregulated  
**Transport Hazard Class** NA **Packing Group** NA **Labels:** NA **ERGCode** NA  
**Marine Pollutant:** No

**IATA-DGR**

**IATA Proper Shipping Name** Not Regulated **UN/NA nonregulated**  
**IATA Class** NA **IATA Packing Group:** NA **IATA Labels** NA

**IMDG-CODE**

**IMDG Proper Shipping Name** Not Regulated  
**IMDG UN/ID Number** NA nonregulated **IMDG Shipping Class** NA **IMDG Packing Group** NA  
**IMDG Labels** NA **IMDG Marine Pollutant:** No

**MARPOL 73/78 Annex II**

**MARPOL** Not available for sale in bulk marine shipments

**Special Precautions** None

**Section 15- Regulatory Information:**

**TSCA Inventory:** All Components are properly registered

**SARA 313 EHS** No Extremely Hazardous Substances in this product

<b>SARA 311/312 Acute Health Hazard</b>	No	<b>SARA 311/312 Chronic Health Hazard</b>	No
<b>SARA 311/312 Fire Hazard</b>	No	<b>SARA 311/312 Sudden Release of Pressure</b>	No
<b>SARA 311/312 Reactivity Hazard</b>	No		

**CAProp65** This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

**REACH :** All components are included in the REACH registry.

**Canada WHMIS Hazard Class:** Not Classified Hazardous

**Other Regulations**

Canada WHMIS - No hazard class

**Section 16- Other Information:**

**Revision Date** 4/5/2016

**Reasons For Revision** Initial version.

**Sec 16 Other Info** This Safety Data Sheet was prepared in good faith from the most recent information available, in accordance with ST-SG-AC10-30-Rev5e. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use.