



## Safety Data Sheet - Coolube® 2210AL

Version 3.0 | Date: 10/24/19

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier

**Product Name:** Coolube® 2210AL  
**Other Identifier:** Mixed Esters  
**Recommended Use:** Metal Working Lubricant

#### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Identified Uses:** Environmentally friendly lubricant  
**Uses Advised Against:** Non-Industrial Uses

#### 1.3 Details of the Supplier of the Safety Data Sheet

**Company Name:** UNIST Australia P/L  
**Address:** 7 Bendtree Way Castle Hill  
NSW 2154 Australia  
**Telephone Number:** (02) 8850 2022  
**Fax Number:** (02) 8850 2033  
**Email Address:** johnbarker@unist.com.au

#### 1.4 Emergency Telephone Number

**Emergency Number:** (02) 8850 2022  
**Hours of Operation:** Monday thru Friday, 8:30 am - 5:00 pm

### SECTION 2: HAZARD IDENTIFICATION

Other than flammability, no specific data exists for this mixture, Hazard classifications are calculated based on component information, according to GHS protocols for the relevant hazard.

**2.1 Hazard Classifications:** Not Classified as a health, physical, or environmental hazard.

#### 2.2 Label Elements:

##### GHS Label Element

**Hazard Symbol:** No pictograms required. Not classified as hazardous substance.  
**Substance or Mixture:** Mixture  
**Signal Word:** No Signal Word  
**Hazard Statement:** No hazard statements applied.  
**Precautionary Statement:** Product is not classified, however, best practice with any industrial lubricant is to minimize direct skin contact using rubber or latex gloves, and protect eyes from splash with safety goggles.

**2.3 Other Hazards Not Resulting****In Classification:**

None.

**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****3.1 Substance**

Component	CAS#	% Range
OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL	PROPRIETARY	60-100
OCTYL ESTER OF C16-C18 FATTY ACIDS	PROPRIETARY	15-40

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.

**SECTION 4: FIRST AID MEASURES****4.1 Description of 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.

<b>If Swallowed:</b>	Get immediate medical attention. Contact poison control center.
<b>If Inhaled:</b>	Remove affected person to fresh air and make comfortable for breathing. Get immediate medical attention.
<b>If in Eyes:</b>	Remove contact lenses and rinse eyes with cool water. Get immediate medical attention.
<b>If on Skin:</b>	Rinse affected area with cool water. Get immediate medical attention.
<b>If on Clothes:</b>	Do not allow skin contact with contaminated clothing. Remove contaminated clothing and wash before re-use.
<b>If Exposed:</b>	Contact physician if you feel unwell.

**4.2 Most Important Symptoms/Effects, Both Acute and Delayed**

<b>Acute:</b>	No symptoms expected.
<b>Delayed:</b>	No symptoms expected.

**4.3 Indication of Immediate****Medical Attention:**

Exposure not expected to cause symptoms requiring medical attention.

**SECTION 5: FIRE-FIGHTING MEASURES (Flash Point: 199°F [93°C])**

- 5.1 Hazardous Decomposition Products:** Byproducts of combustion include carbon dioxide, carbon monoxide, oxides of sulfur, oxides of nitrogen, and heavy, acrid smoke.
- 5.2 Appropriate Extinguishing Media:** Avoid spraying water jet on burning hydrocarbon liquids as this may spread the fire. Use dry chemical or foam extinguishing media.
- 5.3 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.
- 5.4 Special Protective Actions:** Use water spray to cool exposed containers.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

- 6.1 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.
- 6.2 Environmental Precautions:** Small spills may be wiped up with rags. For spills >10 liters- 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.
- 6.3 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.

**SECTION 7: STORAGE AND HANDLING**

- 7.1 Precautions for Safe 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.
- 7.2 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'.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters:

No exposure limits are established for this mixture. Information on individual components is provided below.

#### **Component Information - Occupational Exposure Limits:**

OCTADECANOIC/HEXADECANOIC ACID ESTERS - None Established  
OCTYL ESTER OF C16-C18 FATTY ACIDS - None Established

### 8.2 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.

### 8.3 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 AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

<b>Appearance:</b>	Clear to Hazy Liquid
<b>Odor:</b>	Low Indescript
<b>Odor Threshold:</b>	No Data Available
<b>pH:</b>	N/A oil based
<b>Melting Point:</b>	Liquid under intended use conditions
<b>Freezing Point:</b>	<32°F to -4°F [ $<0^{\circ}\text{C}$ to $-20^{\circ}\text{C}$ ]
<b>Initial Boiling Point:</b>	>212°F [ $>100^{\circ}\text{C}$ ]
<b>Boiling Range:</b>	N/A Water Based
<b>Flash Point:</b>	199°F [ $93^{\circ}\text{C}$ ]
<b>Evaporation Rate:</b>	<1 (n-butyl acetate=1)
<b>Upper Explosive Limit:</b>	Not Determined
<b>Lower Explosive Limit:</b>	Not Determined
<b>Vapour Pressure:</b>	Negligible
<b>Vapour Density:</b>	>1 (air=1)
<b>Relative Density:</b>	.82 - .92 kg/l @ 140°F [ $60^{\circ}\text{C}$ ]
<b>Solubility:</b>	Hydrocarbons, Alcohols
<b>Partition Coefficient:</b>	Log KOW > 4 (mineral oil data)
<b>Auto Ignition Temp:</b>	Not Determined
<b>Decomposition Temp:</b>	Not Determined
<b>Viscosity cSt 104°F [<math>40^{\circ}\text{C}</math>]:</b>	<14.5 cSt 104°F [ $40^{\circ}\text{C}$ ]

**SECTION 10: STABILITY AND REACTIVITY**

<b>10.1 Reactivity:</b>	May react violently if combined with strong oxidizers and heat.
<b>10.2 Chemical Stability:</b>	Stable under recommended storage conditions.
<b>10.3 Conditions to Avoid:</b>	Keep away from fire, sparks, and other sources of ignition.
<b>10.4 Possibly Hazardous Reactions:</b>	None known.
<b>10.5 Incompatible Materials:</b>	Strong acids and materials marked 'Oxidizer'.
<b>10.6 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**

<b>11.1 Likely Routes of Exposure:</b>	Dermal, Eye, and Inhalation of mists. Intended use of product includes possibility of mist generation in air.
<b>11.2 Symptoms of Exposure</b>	
<b>Ingestion:</b>	Ingestion 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>11.3 Immediate or Delayed Effects:</b>	Not expected from exposure to mineral or vegetable oils.
<b>11.4 Interactive Effects:</b>	No data available.
<b>11.5 Numerical Measures of Toxicity - Components (all LD/LC/EC 50 values shown below are based on animal or fish data) at max range value section 3.</b>	
<b>Acute Oral Toxicity:</b>	OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL: Non Hazardous; OCTYL ESTER OF C16-C18 FATTY ACIDS: Non Hazardous
<b>Acute Skin Toxicity:</b>	OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL: Non Hazardous; OCTYL ESTER OF C16-C18 FATTY ACIDS: Non Hazardous
<b>Acute Toxicity Inhalation:</b>	OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL: Non Hazardous; OCTYL ESTER OF C16-C18 FATTY ACIDS: Non Hazardous
<b>Skin Corrosion:</b>	OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL: Non Irritating; OCTYL ESTER OF C16-C18 FATTY ACIDS: Non Irritating

<b>Eye Corrosion:</b>	OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL: Non-Categorized, Suspected Eye Irritant; OCTYL ESTER OF C16-C18 FATTY ACIDS: Non-Categorized, Suspected Eye Irritant
<b>Respiratory Sensitization:</b>	OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL: Non Sensitizing; OCTYL ESTER OF C16-C18 FATTY ACIDS: Non Sensitizing
<b>Skin Sensitization:</b>	OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL: Non Sensitizing; OCTYL ESTER OF C16-C18 FATTY ACIDS: Non Sensitizing
<b>Germ Cell Mutagenicity:</b>	OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL: No Data Available; OCTYL ESTER OF C16-C18 FATTY ACIDS: No Data Available
<b>Carcinogen:</b>	OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL: No Data Available; OCTYL ESTER OF C16-C18 FATTY ACIDS: No Data Available
<b>Reproductive Effects:</b>	OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL: No Data Available; OCTYL ESTER OF C16-C18 FATTY ACIDS: No Data Available
<b>Target Organ 1 Exposure:</b>	OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL: No Data Available; OCTYL ESTER OF C16-C18 FATTY ACIDS: No Data Available
<b>Target Organ Multiple Exposure:</b>	OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL: No Data Available; OCTYL ESTER OF C16-C18 FATTY ACIDS: No Data Available
<b>Aspiration Hazard:</b>	OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL: No Data Available; OCTYL ESTER OF C16-C18 FATTY ACIDS: No Data Available

## SECTION 12: ECOLOGICAL INFORMATION

<b><u>12.1 Ecological Summary:</u></b>	Hydrocarbon mineral oils, and non-petroleum oils, have low toxicity and are inherently biodegradable. See specific information below regarding aquatic toxicity data on components.
<b><u>12.2 Bioaccumulation:</u></b>	Hydrocarbon mineral oils, and non-petroleum oils, are inherently biodegradable and have low bioaccumulation potential. Specific information on components is shown below.
<b><u>12.3 Persistence/Degradability:</u></b>	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.
<b><u>12.4 Waste Treatment Effects:</u></b>	Product residues are not expected to enter publicly operated treatment works. No negative effects of this mixture are known.
<b><u>12.5 Soil Mobility:</u></b>	Mineral oils have been shown to adhere strongly to soil. Mobility is expected to be low.

**12.6 Other Adverse Effects:** None Known

**12.7 Toxicity to Aquatic Organisms, Component Information:**

**Aquatic Toxicity, Acute:** OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL: No Data Available;  
OCTYL ESTER OF C16-C18 FATTY ACIDS: No Data Available

**Aquatic Toxicity, Long Term:** OCTADECANOIC/HEXADECANOIC ACID ESTERS OF 2-ETHYLHEXANOL: No Data Available;  
OCTYL ESTER OF C16-C18 FATTY ACIDS: 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**

**13.1 Disposal Containers and 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.

**13.2 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 improper and may result in fines, penalties, cleanup costs, and criminal liabilities.

**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: TRANSPORTATION INFORMATION**

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

**Proper Shipping Name:** Not regulated.  
**UN/ID/NA Number:** Not applicable, non regulated.  
**Transport Hazard Class:** Not applicable.  
**Packing Group:** Not applicable.  
**Labels:** Not applicable.  
**ERGCode:** Not applicable.  
**Marine Pollutant:** No.

**14.2 IATA-DGR**

<b>IATA Proper Shipping Name:</b>	Not regulated.
<b>UN/ID Number:</b>	Not applicable, non regulated.
<b>IATA Class:</b>	Not applicable.
<b>IATA Packing Group:</b>	Not applicable.
<b>IATA Labels:</b>	Not applicable.

**14.3 IMDG-CODE**

<b>IMDG Proper Shipping Name:</b>	Not regulated.
<b>IMDG UN/ID Number:</b>	Not applicable, non regulated.
<b>IMDG Shipping Class:</b>	Not applicable.
<b>IMDG Packing Group:</b>	Not applicable.
<b>IMDG Labels:</b>	Not applicable.
<b>IMDG Marine Pollutant:</b>	No.

**14.4 MARPOL:** Not available for bulk marine shipment - MARPOL is not applicable.

**14.5 Special Precautions:** None

**SECTION 15: REGULATORY INFORMATION**

**NOTE:** Information provided in this section reflects the best available information from suppliers of components used to manufacture this mixture.

**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

<b>OSHA 1910.1200 Hazardous Chemical:</b>	Hazards are classified as reported in Section 2 above.
<b>SARA 302 EHS:</b>	No Known Hazard or Not Listed
<b>SARA 311/312:</b>	<b>Acute</b> No <b>Chronic</b> No <b>Fire</b> No <b>Pressure</b> No <b>Reactivity</b> No
<b>SARA 313 EHS:</b>	No Known Hazard or Not Listed
<b>TSCA Status:</b>	All Components are properly registered

**15.2 US State Lists & Regulations**

<b>CA Prop 65:</b>	This product does not contain any substances on the California Proposition 65 List as of August, 2018.
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**15.3 US State Right To Know Information**

<b>IL RTK:</b>	No Known Hazard or Not Listed
<b>MA RTK:</b>	No Known Hazard or Not Listed
<b>MN RTK:</b>	No Known Hazard or Not Listed
<b>NJ RTK:</b>	No Known Hazard or Not Listed
<b>NY RTK:</b>	No Known Hazard or Not Listed
<b>PA RTK:</b>	No Known Hazard or Not Listed
<b>RI RTK:</b>	No Known Hazard or Not Listed
<b>Safe Drinking Water Act:</b>	No Known Hazard or Not Listed
<b>Canada WHMIS Hazard Class:</b>	No Known Hazard or Not Listed



**15.4 International Chemical Inventory Status:**

<b>Australia AICS:</b>	Listed
<b>China IECSC:</b>	Listed
<b>Japan ENCS:</b>	Not Listed
<b>Europe EINECS:</b>	Listed
<b>Europe ELINCS:</b>	Listed
<b>Korea ECL:</b>	Listed
<b>Philippines PICCS:</b>	Listed
<b>Canada DSL:</b>	Listed
<b>Canada NDSL:</b>	Not Listed
<b>New Zealand Inv:</b>	Listed

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

**15.5 Other Regulations**

**Canada WHMIS:** No hazard class

**SECTION 16: OTHER INFORMATION****16.1 Other Information:****Legal Disclaimer:**

This Safety Data Sheet was prepared in good faith from the most recent information available, in accordance with current GHS regulations in effect at time of preparation. 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.