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:	None known

1.3 Details of the Supplier of the Safety Data Sheet

Company Name:	UNIST, Inc.
Address:	4134 36th Street SE Grand Rapids, MI 49512
Telephone Number:	(800) 253.5462 alternatively (616) 949.0853
Fax Number:	(616) 949.9503
Email Address:	salessupport@unist.com

1.4 Emergency Telephone Number

Emergency Number:	(800) 253.5462
Hours of Operation:	Monday thru Friday, 8:30 am - 5:00 pm

SDS Date of Preparation: June 1, 2015

SECTION 2: HAZARDS IDENTIFICATION

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

2.1 Hazard Classifications: Skin corrosion/irritation (Category 3)

2.2 Label Elements:

GHS Label Element

Hazard Symbol:	No pictograms required. Not classified as hazardous substance.
Substance or Mixture:	Mixture
Signal Word:	WARNING
Hazard Statement:	Skin contact causes mild skin irritation.
Precautionary Statement:	Avoid breathing mists. Use with good ventilation. Wear eye protection and chemical resistant gloves when handling.

UNIST, Inc., 4134 36th. Street SE, Grand Rapids, MI 49512 USA | Phone: (616) 949.0853, (800) 253.5462 | Fax: (616) 949.9503
salessupport@unist.com | unist.com

2.3 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

3.1 Substance

Component	CAS#	% Range
C8-C18 Fatty Acid Esters	Mixture	60-100
Trade Secret Component	Trade Secret	15-40

Exact percentages and component identities are being witheld 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.

If Swallowed: Get immediate medical attention. Contact poison control center.

If Inhaled: Remove affected person to fresh air and make comfortable for breathing. Get immediate medical attention.

If in Eyes: Remove contact lenses and rinse eyes with cool water. Get immediate medical attention.

If on Skin: Rinse affected area with cool 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.

4.2 Most Important Symptoms/Effects, Both Acute and Delayed

Acute: Respiratory effects, vision effects

Delayed: Dermatological effects.

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

SECTION 5: FIRE-FIGHTING MEASURES

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

5.2 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.

5.3 Special Protective Actions: Keep containers cool with water spray. Evacuate local area until fire is controlled.

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 unneccesary 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 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.

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: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Handling Requirements: Wear protective gear including skin, hand, and eye protection when handling this material. Use with good ventilation or wear NIOSH approved respirator with organic vapor cartridges. Transfer large amounts using pumps and lines that are properly maintained. Visually inspect hoses and replace worn or suspicious looking hose and/or fittings. Use clean containers with sealing lids to transfer small amounts. Use caution when pouring to avoid splashing into eyes or on skin. Do not handle open containers near flames or hot surfaces.

7.2 Methods for Safe Storage: 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:
C8-C18 Fatty Acid Esters - None Established
Trade Secret Component - 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

Appearance:	Clear Liquid
Odor:	Characteristic
Odor Threshold:	Unknown
pH:	NA-anhydrous
Melting Point:	Not applicable
Freezing Point:	<32˚F (<0˚C)
Initial Boiling Point:	>212˚F (>100˚C)
Boiling Range:	Unknown
Flash Point:	390˚F (199˚C)
Evaporation Rate:	<1 (n-butyl acetate=1)
Upper Explosive Limit:	Unknown
Lower Explosive Limit:	Unknown
Vapour Pressure:	<1 mm hg
Vapour Density:	>1 (air=1)
Relative Density:	.82 - .92 kg/l @ 77˚F (25˚C)
Solubility:	Hydrocarbons, insoluble in water
Partition Coefficient:	Unknown
Auto Ignition Temp:	Unknown
Decomposition Temp:	Unknown
Viscosity cSt 104˚F (40˚C):	<14.5 cSt 104˚F (40˚C)

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: May react violently if combined with strong oxidizers and heat.

10.2 Chemical Stability: Stable under recommeneded storage conditions.

10.3 Conditions to Avoid: Keep away from fire, sparks, and other sources of ignition.

10.4 Possibly Hazardous Reactions: None known.

10.5 Incompatible Materials: Strong acids and materials marked 'Oxidizer'.

10.6 Hazardous Decomposition Products: Byproducts of combustion include carbon dioxide, carbon monoxide, oxides of sulfur, oxides of nitrogen, and heavy, acrid smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Likely Routes of Exposure: Dermal and eye exposure from normal use conditions. Ingestion and inhalation are not likely if all precautions for use are followed.

11.2 Symptoms of Exposure

Ingestion: 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.

Inhalation: Coughing and difficulty breathing.

Dermal/Eye: Transient dermal contact is not irritating. Prolonged dermal contact may cause local irritation and rash. Eye contact causes mild to severe eye irritation and possible temporary loss of vision.

11.3 Immediate or Delayed Effects: No data available.

11.4 Interactive Effects: No data available.

11.5 Numerical Measures of Toxicity - Components

Acute Oral Toxicity: C8-C18 FATTY ACID ESTERS: Non Hazardous;
TRADE SECRET COMPONENT: Non Hazardous

Acute Skin Toxicity: C8-C18 FATTY ACID ESTERS: Non Hazardous;
TRADE SECRET COMPONENT: Non Hazardous

Acute Toxicity Inhalation: C8-C18 FATTY ACID ESTERS: Non Hazardous;
TRADE SECRET COMPONENT: Non Hazardous

Skin Corrosion: C8-C18 FATTY ACID ESTERS: Cat 3 Irritant;
TRADE SECRET COMPONENT: Cat 3 Irritant

Eye Corrosion: C8-C18 FATTY ACID ESTERS: Cat 2B Eye Irritant;
TRADE SECRET COMPONENT: Cat 2B Eye Irritant

Respiratory Sensitization: C8-C18 FATTY ACID ESTERS: Non Sensitizing;
TRADE SECRET COMPONENT: Non Sensitizing

Skin Sensitization:	C8-C18 FATTY ACID ESTERS: Non Sensitizing; TRADE SECRET COMPONENT: Non Sensitizing
Germ Cell Mutagenicity:	C8-C18 FATTY ACID ESTERS: No Data Available; TRADE SECRET COMPONENT: No Data Available
Carcinogen:	C8-C18 FATTY ACID ESTERS: No Data Available; TRADE SECRET COMPONENT: No Data Available
Reproductive Effects:	C8-C18 FATTY ACID ESTERS: No Data Available; TRADE SECRET COMPONENT: No Data Available
Target Organ 1 Exposure:	C8-C18 FATTY ACID ESTERS: No Data Available; TRADE SECRET COMPONENT: No Data Available
Target Organ Multiple Exposure:	C8-C18 FATTY ACID ESTERS: No Data Available; TRADE SECRET COMPONENT: No Data Available
Aspiration Hazard:	C8-C18 FATTY ACID ESTERS: No Data Available; TRADE SECRET COMPONENT: No Data Available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecological Summary:	Fatty acid esters are practically non-toxic and are readily biodegradable.
12.2 Bioaccumulation:	Not likely to occur.
12.3 Persistance/Degradability:	Material has OECD 301 value of 90% plus in 28 days.
12.4 Waste Treatment Effects:	No effects.
12.5 Soil Mobility:	Nil
12.6 Other Adverse Effects:	None

12.7 Toxicity to Aquatic Organisms, Component Information:

Aquatic Toxicity, Acute:	C8-C18 FATTY ACID ESTERS: No Data Available; TRADE SECRET COMPONENT: No Data Available
Aquatic Toxicity, Long Term:	C8-C18 FATTY ACID ESTERS: No Data Available; TRADE SECRET COMPONENT: No Data Available
Ozone:	This material does not have any negative effect on the ozone layer.

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 liabilitites.

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 for domestic shipment.
UN/ID/NA Number:	Not applicable.
Transport Hazard Class:	Not hazardous.
Packing Group:	Not applicable.
Labels:	Not applicable.
ERGCode:	Not applicable.
Marine Poolutant:	Not applicable.

14.2 IATA-DGR

IATA Proper Shipping Name:	Not regulated.
UN/ID Number:	Not applicable.
IATA Class:	Not hazardous.
IATA Packing Group:	Not applicable.
IATA Labels:	Not applicable.

14.3 IMDG-CODE

IMDG Proper Shipping Name:	Not regulated.
IMDG UN/ID Number:	Not applicable.
IMDG Shipping Class:	Not hazardous.
IMDG Packing Group:	Not applicable.
IMDG Labels:	Not applicable.
IMDG Marine Pollutant:	Not applicable.

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

14.5 Special Precautions: None

SECTION 15: REGULATORY INFORMATION

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

TSCA Inventory: All components registered.

US SARA 313: Not subject to reporting requirements.

SARA 311/312 Acute health Hazard: No

SARA 311/312 Fire Hazard: No

SARA 311/312 Reactivity Hazard: No

SARA 311/312 Chronic Health Hazard: No

SARA 311/312 Sudden Release of Pressure: No

California Proposition 65: 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 listed on REACH registry.

15.2 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.

HMIS Rating:
Health: 1
Flammability: 0
Physical Hazard: 0

NFPA Rating:
Health: 1
Fire: 0
Reactivity: 0

Revision History: Update to GHS format.
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