



Safety Data Sheet - Coolube® 2210EP

Version 1.0 | Date: 06/01/15

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

1.1 Product Identifier

Product Name: Coolube® 2210EP
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

2.1 Classification of the Substance or Mixture

US Hazard Classification (29CFR 1910.1200-2012): This product is not classified as hazardous in accordance with the OSHA Hazard Communication Standard.

GHS/EU CLP Classification (No 1272/2008): Not classified as a hazardous substance.

GHS Classification:

Physical Hazard: Not classified as hazardous substance.
Health Hazard: Not classified as hazardous substance.
Environmental Hazard: Not classified as hazardous substance.

2.2 Label Elements**No Labeling Required****GHS Label Element**

Hazard Symbol:	Not classified as hazardous substance.
Signal Word:	Not classified as hazardous substance.
Hazard Statement:	Not classified as hazardous substance.
Precautionary Statement:	Not classified as hazardous substance.

2.3 Other Hazards

PBT: This product is not identified as a PBT substance or mixture.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substance**

Chemical Name	CAS#	EINECS#	EU Classification (67/548/EEC) and (1272/2008)	%
Mixed Esters/Ester Blend	Proprietary	Proprietary	Not classified as hazardous	100

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

See Section 16 for further information on EU and GHS Classification.

SECTION 4: FIRST AID MEASURES**4.1 Description of First Aid Measures**

Eye Contact:	Flush with generous amounts of temperate water for a minimum of 15 minutes. Seek medical attention if irritation occurs.
Skin Contact:	Wash with soap and water. Seek medical attention if irritation occurs.
Ingestion:	Drink moderate amounts of water or milk. Do not induce vomiting. Contact medical professional if any adverse reactions are noticed.
Inhalation:	Remove to fresh air. Get medical attention if irritation persists.

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

Eye Contact:	There may be irritation and redness.
Skin Contact:	There may be mild irritation at the site of contact.
Ingestion:	There may be soreness and redness of the mouth and throat.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.

4.3 Indication of Immediate Medical Attention and Special Treatment Needed:

Immediate/Special Treatment: Not applicable. Immediate treatment is not required.

SECTION 5: FIRE-FIGHTING MEASURES**5.1 Extinguishing Media:**

Use water fog/spray, dry chemical powder, carbon dioxide, foam, sand/earth, use water spray to cool containers.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: Not considered flammable but will burn under fire conditions.
In combustion emits toxic fumes of carbon dioxide/carbon monoxide.

5.3 Special Protective Actions for Fire-Fighters:

Special Fire Fighting Procedures: Treat as an oil or fat fire. Do not use heavy stream of water. Burning material may float or splatter surrounding area and spread fire. Cool fire exposed containers with water.

Fire Fighting Equipment: As in any fire, wear positive pressure, self-contained breathing apparatus and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

Personal Precautions: Refer to section 8 of SDS for personal protection details.
Turn leaking containers leak-side up to prevent escape of liquid.

6.2 Environmental Precautions

Environmental Precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. Report spills and releases as required to appropriate authorities.

6.3 Methods and Material for Containment and Cleaning Up

Small Spills: Stop spill at source, dike area of spill to prevent spreading. Absorb liquid with an absorbent material and place in a disposal container. Wash area with hot soapy water. Use caution. Spill area will be slippery.

Large Spills: Stop spill at source, dike area of spill to prevent spreading. Pump liquid to salvage tank. Absorb remaining liquid with an absorbent material and place in a disposal container. Wash floors with hot soapy water to prevent slipping. Use caution. Spill area will be slippery.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for Safe Handling**

Handling Requirements: Avoid mist formation. Use with adequate ventilation. Avoid contact with eyes. Wear recommended personal protective equipment. Wash thoroughly after handling. Keep product away from heat, sparks and flames. Keep containers closed when not in use. Never use pressure to empty drums. If material is hot, take precautions against thermal burns.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Suitable Packaging: Corrosion resistant bulk tanks, IBC, steel drums. Store in a dry area away from heat or sparks and direct sunlight. Maintain good ventilation in storage area.

Storage Conditions: Storage temperature +41°F (+5°C) to +104°F (+40°C). Store in closed container, preferably as delivered. Keep containers closed when not in use. Storage stability is at least 12 months. Lined or unlined steel drums are suitable for storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure Limits
Ester Blend	None Established

DNEL/PNEC: No data available

8.2 Appropriate Engineering Controls

Engineering Measures: Exposure should be minimized preferably with technical measures rather than personal protective equipment. Ensure there is sufficient ventilation of the area.

8.3 Individual Protection Measures

Respiratory Protection: Not necessary in normal use. Emergency situation where there is a risk of mist or fume exposure may require that respiratory protection be used. Gas/vapor filter, Type A: organic vapors (EN141). Follow applicable regulations and good Industrial Hygiene practice.

Hand/Skin Protection: Impermeable gloves recommended. (e.g. Neoprene, PVC, or rubber gloves). Use lined, thermally protective gloves for handling hot material.

Eye Protection: Chemical safety goggles recommended if needed to avoid eye contact.

Protective Clothing: Wear a work uniform or tyvek suit if needed to avoid contamination of personal clothing. Wear thermally protective clothing when working with hot material.

Work Hygienic Practices: Remove contaminated clothing and launder or dispose in an approved waste disposal facility. Wash hands with soap and water after handling product or clothing containing residual.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical State:	Low viscosity liquid
Viscosity, 104°F (40°C)	Viscous
Appearance:	Yellow
Odor:	Sulphur
pH Value:	Not determined/not applicable
Flash Point:	(Open Cup): >400°F (COC), >200°C
Pourability:	10.4 to -4°F (-12 to -20°C)
Boiling Point	>392°F (>200°C)
Autoflammability	>752°F (>400°C)
Autoignition Temperature:	Not determined
Exposure Range:	Not applicable
Vapor Pressure:	<1 mmHg @ 77°F (25°C)
Vapor Density:	Greater than 1
Specific Gravity:	0.93 @ 77°F (25°C)
Melting Point:	Not determined
Solubility in Water:	Insoluble
Also Solvent in:	Soluble in most organic solvents
Evaporation Rate:	Nil
Percent Volatile:	Not determined
Partition Coefficient, N-octanol/Water:	Not determined
Explosive Properties:	None
Flammable Limits: LEL:	Not determined
Flammable Limits: UEL:	Not determined
Flammability (Solid/Gas):	Not applicable
Decomposition Temperature:	Not determined
Oxidizing Properties:	None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:	Not reactive. Stable under recommended transport or storage conditions.
10.2 Chemical Stability:	Stable under normal conditions.
10.3 Possibility of Hazardous Reactions:	Hazardous reactions will not occur under normal transport and storage conditions. Reaction with strong oxidizers may generate heat and cause fires.
10.4 Conditions to Avoid:	Keep away from heat, sparks, flames and other sources of ignition. Avoid contact with acids.
10.5 Incompatible Materials	
Materials to Avoid:	Strong oxidizing agents. Strong acids.
10.6 Hazardous Decomposition Products:	
Haz. Decomp. Products:	In combustion, emits toxic fumes of carbon dioxide/carbon monoxide. No carcinogenic products of combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects**Toxicity Values:**

Route	Species	Test	Value	Units
ORAL	RAT	LD50	>5000	mg/kg

11.2 Symptoms/Routes of Exposure

Skin Contact:	There may be mild irritation at the site of contact.
Skin Absorption:	No evidence of adverse effects from available information.
Ingestion:	There may be soreness and redness of the mouth and throat. May cause gastrointestinal discomfort if ingested in large quantities.
Inhalation:	Vapors, mists, or aerosols which may be formed at elevated temperatures may be irritating to the eyes and respiratory tract.
Chronic Toxicity:	No adverse effects expected.
Delayed/Immediate Effects:	No data available.
Skin Corrosion/Irritation:	Not expected to be irritating.
Eye Damage/Irritation:	Slightly irritating.
Skin Sensitization:	Not expected to be sensitizing.
Respiratory Sensitization:	No data available.
Mutagenicity:	Not mutagenic.
Carcinogen Status:	No data available. none of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU Dangerous Substance Directive.
Toxicity for Reproduction:	No data available. No adverse effects are expected.
STOT - Single Exposure:	No data available.
STOT - Repeated Exposure:	No data available.
Exposure Aspiration Hazard:	No data available.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity:** No specific data is available. Not expected to be toxic to aquatic organisms.
- 12.2 Persistence and Degradability:** The product is not readily biodegradable
- 12.3 Bioaccumulative Potential:** No bioaccumulative potential.
- 12.4 Mobility in Soil:** The product is insoluble in water.
- 12.5 Results of the PBT and vPvB assessment**
 - PBT Identification:** This product is not identified as a PBT substance.
- 12.6 Other Adverse Effects:** Negligible ecotoxicity.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

- Disposal Operations:** Transfer to a suitable container and arrange for collection by specialized disposal company. Dispose in accordance with all applicable national environmental laws and regulations.
- Disposal of Packaging:** Arrange for collection by specialized disposal company.
- NB:** The user’s attention is drawn to the possible existence of regional or national regulations regarding disposal.
- General Comments:** It is the responsibility of the user of this product to characterize wastes generated to determine if the waste meets the definition of hazardous waste. Do not dispose of by means of sinks, drains, or in the immediate environment. Obtain consent of pollution control authorities before discharging to wastewater treatment plants.
- EWC Waste Code:** EWC: 130208 other engine, gear and lubricating oils.

SECTION 14: TRANSPORTATION INFORMATION

14.1 Land Transport (DOT/ADR/RID)

- UN Number:** Not classified as dangerous goods under transport regulation.
- UN Proper Shipping Name:** Not applicable.
- Transport Hazard Class:** Not hazardous.
- Packing Group:** Not applicable.

14.2 Sea Transport (IMDG Code)

- UN Number:** Not classified as dangerous goods under transport regulation.
- UN Proper Shipping Name:** Not applicable.
- Transport Hazard Class:** Not hazardous.
- Packing Group:** Not applicable.

14.3 Air Transport (IATA)

UN Number:	Not classified as dangerous goods under transport regulation.
UN Proper Shipping Name:	Not applicable.
Transport Hazard Class:	Not hazardous.
Packing Group:	Not applicable.

14.4 Inland Waterways Transport (IATA)

UN Number:	Not classified as dangerous goods under transport regulation.
UN Proper Shipping Name:	Not applicable.
Transport Hazard Class:	Not hazardous.
Packing Group:	Not applicable.

14.5 Transport in Bulk (Annex II of MARPOL 73/78 and the IBC Code)

Product Name:	Not applicable.
Ship Type:	Not applicable.
Pollution Category:	Not applicable.

14.6 Special Precautions for User: None**14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.**SECTION 15: REGULATORY INFORMATION****15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

References (Laws/Regulations):	The Aerosol Dispensers (EEC Requirements) (Amendment) Regulations 1996 (S.I 1996 No. 2421). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Dangerous Substance Directive 67/548/EEC. EH40/2005, Workplace exposure limits 2005, with amendments. The List of Wastes FLME 1254 Page 4 of 5 (England) (Amendment) Regulations 2005. (SI 2005 No. 895).
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Symbols:	None.
Risk Phrases:	None.
Safety Phrases:	None.

No labeling required according to EU Regulations.

Superfund Amendments and Reauthorization Act of 1986 (SARA) title III requires submission of annual reports of toxic chemicals that appear in 40 CFR 372 (SARA 313). This information must be included in all SDS's that are copied and distributed for this material. Components present in the product at a level which could require reporting under the statute are: None.

15.2 Chemical Safety Assessment

Chemical Safety Assessment
Performed: No
CSR Required: No

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

This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 453/2010.

Coolube® 2210EP is a neat metalworking oil with superior lubricating properties. The product is based on vegetable oils and natural esters and should be used undiluted in, for example, minimal lubrication applicators. This product (or components, if a mixture) has not been found to be a carcinogen or potential carcinogen by IARC; is not listed in the NTP Third Annual Report; nor is it regulated by OSHA as a carcinogen.

Legal Disclaimer:

The information presented herein has been compiled from sources considered by the company, in good faith, to be dependable and is accurate and reliable to the best of our knowledge and belief. However, the company cannot make any warranty or representation respecting the accuracy or completeness of the data and assumes no responsibility for any liability or damages relating thereto or for advising you regarding the protection of your employees, customers, or others. Users should make their own tests to determine the applicability of such information or suitability of any products of specific use.

HMIS Rating:

Health: 0
Flammability: 1
Physical Hazard: 0

NFPA Rating:

Health: 0
Fire: 1
Reactivity: 0

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

None.

Revision History: Update to GHS format.

Date: 06/01/15