



## Material Safety Data Sheet-Coolube 2210EP

### 1. IDENTIFICATION OF THE SUBSTANCE/COMPANY INFORMATION

6/21/2006

**Commercial Name:** Coolube 2210EP  
**Chemical Name:** Mixed Esters of naturally occurring refined fatty acids  
**Chemical Family:** Mixed Esters  
**Supplier Name:** UNIST, Inc.  
**Address:** 4134 - 36th Street SE  
Grand Rapids, MI 49512  
**Phone no:** (800) 253-5462 alternatively (616) 949-0853  
**Fax no:** (616) 949-9503

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance or Composition:** Composition based on natural esters  
The components of this product are in compliance with the chemical notification requirements of the EPA TSCA.

**Health hazardous components:** None

Substances required to be listed without contributing to the classification of the composition:

<u>Hazardous components:</u>	<u>Wt %:</u>	<u>Classification, risk phrase:</u>
None	-	-

### 3. HAZARDS IDENTIFICATION

**Health:** Under intended use, the product is considered as non-toxic and safe.

**Skin:** Contact not expected to cause serious irritation.  
**Eyes:** Contact not expected to cause serious irritation.  
**Ingesting:** No evidence of adverse effects from available information  
**Inhalation:** Vegetable oil mists are classified as "nuisance particulates" by the American Conference of Governmental Industrial Hygienists (no health effects reported)

**Environment:** Avoid releases to the environment.  
Experiments made on this and similar products indicate that the product can be considered a low danger to the environment.  
However, regulations forbid the disposal of lubricants in the environment without special permit.

**Physical-chemical hazards:** No particular risk of ignition or explosion.  
**Specific risks:** None

The product is considered not hazardous according to the EU Dangerous Substances/Preparations Directives classification scheme (67/548/EEG, last amended by EU Directive 1999/45/EG).

### 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air.  
**Skin contact:** Wash with detergent and water.  
**Eye splashes:** Flush with generous amounts of temperate water for a minimum of 15 minutes. Seek medical help if the problems remain.  
**Ingestion:** Drink moderate amounts of water or milk. Do not induce vomiting. Contact medical professional if any adverse reactions are noticed.

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## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

**recommended:** CO<sub>2</sub>, dry powder, foam.  
**not recommended:** Water in a jet.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** None necessary.  
**Environment protection:** Avoid pollution of sewers and water.  
**Cleaning means:** Removal with inert absorbent or sand.

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## 7. HANDLING AND STORAGE

### Handling

**Personal protection:** Avoid prolonged and repeated contact with skin. Remove soaked clothes.

### Storage

**Recommended conditions:** Storage temperature +5 to +40 °C. Store in closed container, preferably as delivered. Storage stability is at least 12 months.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Technical measures:** Exposure should be minimized preferably with technical measures rather than personal protective equipment.

### Personal protective equipment

**Respiratory protection:** Not necessary in normal use.  
**Hand protection:** Impermeable gloves recommended (e.g. PVC or rubber gloves).  
**Eye protection:** Safety goggles recommended.  
**Others:** Not necessary.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Low viscous oil  
**Viscosity (40°C):** 10 mm<sup>2</sup>/s (cSt)  
**Color:** Yellowish fluid  
**Odor:** Vegetable oil related  
**pH value:** Not applicable  
**Flash point (Open Cup):** >200 °C, >400F(COC)  
**Pourability:** -12 to -20 °C  
**Auto ignition temperature:** Not applicable  
**Explosion range:** Not applicable  
**Vapour pressure:** Negligible under normal conditions  
**Density (20°C):** Approx. 890 kg/m<sup>3</sup>  
**Solubility in water:** Insoluble  
**Solubility in organic solvents:** Soluble

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable product under ordinary conditions.  
**Hazardous reactions:** None known.  
**Conditions to be avoided:** Elevated temperatures (>>100°C), acids and strong oxidizing agents.  
**Hazardous decomposition products:** Thermal decomposition (>>200°C) may give flammable and toxic gases such as hydrogen sulphide, sulphur oxides and carbon oxides may be formed.

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**11. TOXICOLOGICAL INFORMATION**

**Acute oral toxicity** (OECD 401): LD<sub>50</sub> rat >2000 mg/kg, i.e. not toxic

**Skin irritation** (OECD 404): Not tested.

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**12. ECOLOGICAL INFORMATION**

**Biodegradability:** The product is **readily biodegradable** according to CEC L-33-A-93 (>80 % in 21 days).

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**13. DISPOSAL CONSIDERATIONS**

**Used product:** As per existing regulations.

**Used packaging:** As per existing regulations.

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**14. TRANSPORT INFORMATION**

The product is not classified as dangerous goods.

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**15. REGULATORY INFORMATION**

**Symbols:** None

**Risk phrases:** None

**Safety phrases:** None

No labelling 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(for SARA 313). This information must be included in all MSDSs 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

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**16. OTHER INFORMATION**

Coolube 2210 EP 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.

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 or such information or suitability of any products for specific use.

**HMIS Rating (USA):**

<b>Health:</b>	0
<b>Flammability:</b>	1
<b>Physical Hazard:</b>	0

0=Minimal, 1= Slight, 2=Moderate,

3= Serious, 4=Severe

\*=Chronic Health Hazard

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