

**Material Safety Data Sheet****Product: PHEROCON® CM DA COMBO**

**MSDS Date:** Revised 5-01-08  
**Product Name:** PHEROCON® CM DA COMBO  
**Manufacturer:** Trécé Incorporated

**I. Product and Company Description**

**Company:** Trécé Incorporated, P.O. Box 129, Adair, OK 74330  
**Emergency Phone Number:** (918) 785-3061  
**For Product Information:** (918) 785-3061  
**Chemistry Name:** (8E,10E) 8,10-Dodecadien-1-ol  
**Synonym:** 8,10-Dodecadien-1-ol; (E,E)-High purity CM Pheromone; Codlure, High Purity  
**Chemistry Name:** Ethyl (2E,4Z)-2,4-Decadienoate  
**Synonym:** 2,4-Decadienoic acid; ethyl ester; (E,Z)-Pear Ester

**II. Chemical Composition / Information on ingredients**

Active ingredient impregnated into medical grade rubber septa with appropriate solvent at a rate of 0.1 to 40

**Chemistry Name:** (8E,10E)-8,10-Dodecadien-1-ol  
**CAS # :** 33956-49-9  
**MF:** C<sub>12</sub>H<sub>22</sub>O  
**EC NO:** 251-761-2  
**Chemistry Name:** Ethyl (2E,4Z)-2,4-Decadienoate  
**CAS#:** 3025-30-7  
**FEMA #:** 3148  
**MF:** C<sub>12</sub>H<sub>20</sub>O<sub>2</sub>  
**EC NO:** 221-178-8

**III. Hazards Identification**

**HMIS Hazard Classifications:** Health = 1; Flammability = 1; Reactivity = 0; Protection = B  
**NFPA Hazard Classifications:** Health = 1; Flammability = 1; Reactivity = 0  
**Label Precautionary Statements/  
U.S. Hazard Labeling:** Keep under nitrogen. May be irritating to skin and eyes.  
**European R Phrases:** Irritating to skin.

**IV. First-Aid Measures**

**Eye Exposure:** Flush with water for 15 minutes. Seek medical help if necessary.  
**Skin Exposure:** Wash area well with water. Seek medical help if necessary.  
**Inhalation:** Remove to fresh air. Give oxygen and call a physician.  
**Ingestion:** Administer water and call a physician or poison control center immediately. Do not induce vomiting.

**V. Fire Fighting Measures**

**Flash Point:** Not Determined  
**Autoignition Temperature:** Not Determined  
**Flammability Limits (vol/vol%):** Lower: ND; Upper: ND  
**Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>), foam, dry chemical  
**Special Fire Fighting Procedures:** Use standard fire fighting procedures.  
**Unusual Fire and Explosion Hazards:** NA  
**Hazardous Decomposition Materials  
(Under Fire Conditions):** NA



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### VI. Accidental Release Measures

**Cleanup and Disposal of Spill:** Standard absorbents can be used.  
**Waste Disposal:** Incineration or sanitary landfill in accordance with local, state, and federal regulations.

### VII. Handling and Storage

**Handling:** Apply according to good manufacturing and industrial hygiene practices with proper ventilation. Do not drink, eat, or smoke while handling. Respect good personal hygiene.  
**Storage:** Store tightly sealed under inert gas below 0°C.  
**Fire Protection:** Keep away from ignition sources and naked flame.

### VIII. Exposure Controls / Personal Protection

**Ventilation:** Mechanical (general)  
**Respiratory Protection:** Usually not required  
**Eye / Face Protection:** Wear splash-proof safety glasses  
**Skin Protection:** Wear rubber gloves  
**Other Protective Equipment:** Safety shower, eye wash

### IX. Physical and Chemical Properties

**Chemistry Name:** (8E,10E)-8,10-Dodecadien-1-ol  
**Physical Appearance:** Solid  
**Odor:** waxy, fatty  
**Melting Point:** 29  
**Specific Gravity at 25°C (water = 1):** Not applicable  
**Water Solubility:** Insoluble in water; soluble in alcohol  
**Boiling Point:** 70°C at .5 mm Hg  
**Vapor Pressure:** (20°C, mm Hg): Not found  
**Vapor Density:** (Air = 1): > 1  
**Flash Point:** (CC): 230°F 110°C

**Chemistry Name:** Ethyl (2E,4Z)-2,4-Decadienoate  
**Physical Appearance:** Liquid  
**Odor:** Bartlett pear odor.  
**Specific Gravity:** At 25°C (water = 1): 0.8980:0.9060  
**Water Solubility:** Insoluble in water; soluble in alcohol  
**Boiling Point:** 120°C at 7 mm Hg  
**Vapor Pressure:** (20°C, mm Hg): 0.04 mm Hg at 25°C  
**Flash Point:** (CC): 230°F 110°C

### X. Stability and Reactivity

**Conditions to Avoid:** Presents no special reactivity hazard  
**Materials / Chemicals to be Avoided:** Strong oxidizing agents  
**Hazardous Combustion Products:** CO, CO<sub>2</sub>, Water, Smoke, and irritating fumes.



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### XI. Toxicological Information

**Chemistry Name:** (8E, 10E)-8,10-Dodecadien-1-ol  
**Acute Effects:** Most likely route of entry is through the skin.  
Ames: non-mutagenic with and without microsomal activation  
Full strength may be irritating to eyes and skin.  
**Irritation Data:** Eye Rabbit: irritant effects, mild  
**Toxicity Data:** LD50 Dermal (Rabbit) > 2020 mg/kg  
LD50 Inhalation (per animal) > 20 mg/L  
LD50 Intratracheal (per animal) 2.5 ml/animal  
LD50 Oral (rat) > 5050 mg/kg  
**Threshold Limit Value: (TLV):** Not established  
**OSHA Permissible Exposure Limit (PEL):** Not established  
**Listed as Carcinogen by NTP, IARC, or OSHA:** No

**Chemistry Name:** Ethyl (2E,4Z)-2,4-Decadienoate  
**Acute Effects:** Most likely route of entry is through the skin.  
Full strength may be irritating to skin and eyes.  
**Irritation Data:** Skin Rabbit: irritant effects at 5 g/kg  
**Toxicity Data:** LD50 Dermal (rabbit) > 5 g/kg  
LD50 Oral (rat) > 5g/kg  
**Threshold Limit Value: (TLV):** Not established  
**OSHA Permissible Exposure Limit (PEL):** Not established  
**Listed as Carcinogen by NTP, IARC, or OSHA:** No

### XII. Ecological Information

**General:** Prevent contamination of soil, ground, and surface water.

### XIII. Disposal Consideration

**Waste Disposal Method:** Incineration or sanitary landfill in accordance with local, state, and federal regulations.

### XIV. Transportation Information

**Road (U.S. - DOT):** Not regulated  
**Air (IATA):** Not regulated  
**Sea (IMDG):** Not regulated

### XV. Regulatory Information

**European Information:** Based on toxicological studies in the published literature, there are no risk and safety phrases to assign for this product.  
**R38:** Irritating to Skin  
**Reviews, Standards, and Regulations:** This chemical is listed on the following inventories: TSCA AICS CHINA DSL ECL EINECS (221-178-8) PICCS  
**Listed as Carcinogen by NTP, IARC, or OSHA:** No



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### **XVI: Other Information**

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#### **Key Legend Information:**

N/A	Not Applicable
ND	Not Determined
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TLV	Threshold Limit Value
PEL	Permissible Exposure Limit
TWA	Time Weighted Average
STEL	Short Term Exposure Limit
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer

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