

**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: C₁₂H₂₂O
EC NO: 251-761-2
Chemistry Name: Ethyl (2E,4Z)-2,4-Decadienoate
CAS#: 3025-30-7
FEMA #: 3148
MF: C₁₂H₂₀O₂
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 (CO₂), 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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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, CO₂, 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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