1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

<table>
<thead>
<tr>
<th>Product name</th>
<th>CMOFMLR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Number</td>
<td>N/A</td>
</tr>
<tr>
<td>Product Form</td>
<td>2 parts:</td>
</tr>
<tr>
<td></td>
<td>Part 1: Pheromone + kairomone attractant absorbed on rubber septum and Part 2: Kairomone attractant absorbed on cellulose pad and enclosed in membrane-type dispenser</td>
</tr>
<tr>
<td>Brand</td>
<td>Alpha Scents</td>
</tr>
</tbody>
</table>

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Insect Lure for Codling Moth, Oriental Fruit Moth and Leafroller

1.3 Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Company</th>
<th>Alpha Scents, Inc</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>360 S. Sequoia Pkwy.</td>
</tr>
<tr>
<td></td>
<td>CANBY OR 97013 USA</td>
</tr>
<tr>
<td>Telephone</td>
<td>503-342-8611</td>
</tr>
<tr>
<td>Fax</td>
<td>314-271-7297</td>
</tr>
</tbody>
</table>

1.4 Emergency telephone number

Emergency Phone #: 800-222-1222

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Part 1 Lure:

1. Chemical Name: trans-8, trans-10-Dodecadienol
   Synonyms: 8,10-Dodecadien-1-ol, (8E,10E)-CM Pheromone, Codlemone
   Formula: C12H22O
   Molecular weight: 182.3 g/mol
   CAS-No.: 33956-49-9
   EC Number: 251-761-2

2. Chemical Name: Beta-ocimene
   Synonyms: 3,7-Dimethyl-1,3,6-octatriene, 3,7-Dimethyl-1,3,6-octatrien
   Formula: C10H16
Molecular weight : 136.23 g/mol  
CAS-No. : 13877-91-3  
EC Number : 237-641-2

**Part 2 Lure**

(2) Chemical Name : Ethyl Acetate  
Synonyms : Ethyl Ethanoate  
Acetic ester  
Acetic ether  
Ethyl ester of acetic acid

<table>
<thead>
<tr>
<th>Formula</th>
<th>Molecular weight</th>
<th>CAS-No.</th>
<th>EC Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>C₄H₈O₂</td>
<td>88.1 g/mol</td>
<td>104-78-6</td>
<td>205-500-4</td>
</tr>
</tbody>
</table>

The exact percentage of composition has been withheld as a trade secret.

4. **FIRST AID MEASURES**

4.1 Description of first aid measures

**General advice**
Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**
Wash off with soap and plenty of water.

**In case of eye contact**
Flush eyes with water as a precaution.

**If swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 **Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 **Indication of any immediate medical attention and special treatment needed**

No data available

5. **FIREFIGHTING MEASURES**

5.1 Extinguishing media

**Suitable extinguishing media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 **Special hazards arising from the substance or mixture**

Carbon oxides

5.3 **Advice for firefighters**
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 **Further information**
No data available

6. **ACCIDENTAL RELEASE MEASURES**

6.1 **Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid breathing vapors, mist or gas.  
For personal protection see section 8.

6.2 **Environmental precautions**
Do not let product enter drains.

6.3 **Methods and materials for containment and cleaning up**
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for
6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
None required.

Skin protection
Handle with gloves. None required if lure is in foil pouch. Gloves should be used when handling lures removed from foil pouch. Wash and dry hands.

This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
None required.

Control of environmental exposure
Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

(1) (8,10-Dodecadien-1-ol, 8E,10E)-

a) Appearance
Form: liquid
Color: light yellow

b) Odor
characteristic

c) Odor threshold
No data available

d) pH
No data available

e) Melting point/freezing point
30 - 32 °C (86 - 90 °F)

f) Initial boiling point and boiling range
110 - 120 °C (230 - 248 °F) at 2.7 hPa (2.0 mmHg)

g) Flash point
91 °C (196 °F) - closed cup

h) Evaporation rate
No data available

i) Flammability (solid, gas)
No data available

j) Upper/lower flammability or explosive limits
No data available

k) Vapor pressure
No data available

l) Vapor density
No data available

m) Relative density
0.85 - 0.87 g/cm³ at 25 °C (77 °F)

n) Water solubility
25.48 g/l

o) Partition coefficient n-octanol/water
No data available
p) Auto-ignition temperature  No data available
q) Decomposition temperature  No data available
r) Viscosity  No data available
s) Explosive properties  No data available
t) Oxidizing properties  No data available

(2) Beta-Ocimene  
a) Appearance  Form: liquid  
   Color: light yellow  
b) Odor  No data available  
c) Odor threshold  No data available  
d) pH  No data available  
e) Melting point/freezing  No data available.  
f) Initial boiling point and boiling range  
g) Flash point  38 °C (100 °F) - closed cup  
h) Evaporation rate  No data available  
i) Flammability (solid, gas)  No data available  
j) Upper/lower flammability or explosive limits  No data available  
k) Vapor pressure  No data available  
l) Vapor density  No data available  
m) Relative density  0.818 g/cm³ at 20 °C (68 °F)  
n) Water solubility  No data available  
o) Partition coefficient  n-octanol/water  No data available  
p) Auto-ignition temperature  No data available  
q) Decomposition temperature  No data available  
r) Viscosity  No data available  
s) Explosive properties  No data available  
t) Oxidizing properties  No data available

(3) Ethyl acetate  
a) Appearance  Form: liquid  
   Color: colorless  
b) Odor  Ether-like  
c) Odor threshold  No data available  
d) pH  No data available  
e) Melting point/freezing point  -83.6 °C (-118.5 °F)  
f) Initial boiling point and boiling range  
g) Flash point  −4 °C (25 °F)  
h) Evaporation rate  No data available  
i) Flammability (solid, gas)  No data available  
j) Upper/lower flammability or explosive limits  No data available  
k) Vapor pressure  73 mmHg (9.7 kPa) at 20 °C  
l) Vapor density  No data available  
m) Relative density  0.902 g/cm³ at 25 °C (77 °F)  
n) Water solubility  83 g/l  
o) Partition coefficient  n-octanol/water  No data available  
p) Auto-ignition temperature  No data available  
q) Decomposition temperature  No data available  
r) Viscosity  426 μPa·s (0.426 cP) at 25 °C  
s) Explosive properties  2.0–11.5%  
t) Oxidizing properties  No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity  
No data available

10.2 Chemical stability  
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong bases, Strong oxidizing agents, Strong reducing agents

10.6 Hazardous decomposition products
Other decomposition products-No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available
Inhalation: No data available
LD50 Dermal -Rabbit-> 5,000 mg/kg
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

Reproductive toxicity
No data available

Specific target organ toxicity -single exposure
No data available

Specific target organ toxicity -repeated exposure
No data available

Aspiration hazard
No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available
13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product Offer surplus and non-recyclable solutions to a licensed disposal company

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

15. REGULATORY INFORMATION

EPA Exempted from label requirements; CFR 40 152.25(b) if used for monitoring purposes in traps.

16. OTHER INFORMATION

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

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

Further information
Copyright 2015 Alpha Scents, Inc. The information contained herein is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Alpha Scents, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.