SAFETY DATA SHEET
MAMCON

Date Revised: July 2020
Supersedes: October 2015

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

<table>
<thead>
<tr>
<th>Product name</th>
<th>MAMCON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Number</td>
<td>N/A</td>
</tr>
<tr>
<td>Product Form</td>
<td>Pure pheromone attractant absorbed on rubber septum</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 Bertha Armyworm, Mamestra configurata

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>1089 Willamette Falls Dr.</td>
</tr>
<tr>
<td></td>
<td>WEST LINN OR 97068</td>
</tr>
<tr>
<td></td>
<td>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

<table>
<thead>
<tr>
<th>(1) Chemical Name</th>
<th>(Z)-11-Hexadecenyl acetate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms</td>
<td>Z11-16Ac</td>
</tr>
<tr>
<td></td>
<td>11-Hexadecen-1-ol, acetate, (11Z)-</td>
</tr>
<tr>
<td>Formula</td>
<td>C18H34O2</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>282.47</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>34010-21-4</td>
</tr>
<tr>
<td>EC Number</td>
<td>251-791-6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(2) Chemical Name</th>
<th>(Z)-9-Tetradecenyl acetate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms</td>
<td>Z9-14Ac</td>
</tr>
<tr>
<td></td>
<td>9-tetradecen-1-ol, acetate, (9Z)-</td>
</tr>
<tr>
<td>Formula</td>
<td>C16H30O2</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>254.41</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>16725-53-4</td>
</tr>
<tr>
<td>EC Number</td>
<td>240-780-1</td>
</tr>
</tbody>
</table>

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

1
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 disposal.

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) (Z)-11-Hexadecenyl acetate

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 340.84 °C
   g) Flash point 110 °C 230°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 0.000126 mmHg (20°C, EPI 4.0)
l) Vapor density No data available
m) Relative density No data available
n) Water solubility Insoluble
   o) Partition coefficient n-octanol/water 7.520
   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) (Z)-9-Tetradecenyl acetate

a) Appearance Form: liquid
   Color: clear to pale 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 333.52 °C @ 760.00 mm Hg (est)
g) Flash point 209.00 °F. TCC (98.50 °C.) (est)
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 No data available
n) Water solubility No data available
o) Partition coefficient 6.490 (est)
   n-octanol/water
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

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.