PRODUCT: *RHYFER* - red palm weevil pheromone lure (species: *Rhyncophorus ferrugineus*)

1. Common Name, Commercial Application, Code

   Red Palm Weevil pheromone lure, attractant for deployment in pheromone traps, RHYFER

2. Pheromone components and ratios:
   - Component 1. 4-methyl-5-nonanol
   - Component 2. 4-methyl-5-nonanone

3. Appearance and color of a.i. and formulated product
   - Appearance of active ingredients: clear liquid with slight musty odor
   - Appearance of formulated product: pheromone saturated paper enclosed in an inert, permeable plastic bag
   - Packaging: Non-permeable plastic pouch

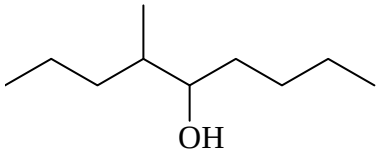
4. Kind of formulation / Concentration of a.i.
   - Synthetic pheromone
   - Load rate per lure: 700 mg

5. Chemical group: Alcohols

   Insect sex pheromone - synthetic copy

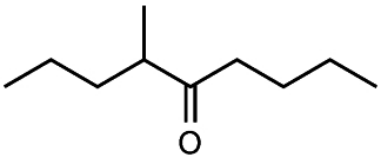
   Component 1:
   - CAS Name: 4-methyl-5-nonanol
   - CAS Registry #: [154170-44-2]
   - Molecular formula: $C_{10}H_{22}O$
   - Molecular weight: 158.28
   - Boiling point (approx): 70°C
   - Solubility: Insoluble in water, soluble in alcohol
   - Flash point (approx): 86°C

   Structure:



   Component 2:
   - CAS Name: 4-methyl-5-nonanone
   - CAS Registry #: [35900-26-6]
   - Molecular formula: $C_{10}H_{20}O$
   - Molecular weight: 156.26
   - Boiling point (approx): 90°C
   - Solubility: Insoluble in water, soluble in alcohol
   - Flash point (approx): 72°C

   Structure:



6. Longevity
   - Pheromone is released from lure at a controlled rate over a period of 65 days.
   - Lure must be replaced at 65 day intervals.
   - Release rate: Approx: 10 mg/24hrs at constant 24°C
7. Method of Analysis
   Gas chromatography

Alpha Scents, Inc., 1089 Willamette Falls Drive, West Linn, OR 97068
Tel. 315-699-1991 • Fax. 314-271-7297 • sales@alphascents.com
www.alphascents.com