

Agar Ant Bait SOP
Enterprise Vineyards
5/8/22

This formulation must be made at a 10 gallon per acre rate for each single batch, and batches can be repeated to make larger amounts. All materials are to be kept and stored at ORV, and will be labeled with "ANT BAIT MATERIALS" in the barn.

Materials: Water, Sugar, Agar Powder, Boric Acid, Scale, 15 gallon pot, propane burner + propane tank, macro-bin, tractor + forks/forklift, rake, shovel, 5 gallon bucket (s), scooping spoons

People Needed: 2

PPE Required: heat resistant gloves, rubber gloves, protective glasses (worn at all times)

1. Place the 15 gallon pot on the propane burner located in the barn at ORV. The burner and pot should be in an open area with access to a tractor, directly next to the office.
2. Place the macrobin labeled "ANT BAIT" near the burner and with accessibility to the tractor.
3. Weigh out the Boric Acid on the scale (.89 lbs for Southern Fire Ant Formula, .44 lbs for Argentine Ant formula) and place the boric acid into the macrobin
4. To the pot, add the following:
 - a. 7.75 gallons of water (~1.5 five gallon buckets full)
 - b. 20 lbs of sugar
 - c. .85lbs of agar powder (weighed out on scale located in barn)
5. Connect the burner to the propane tank using the connection cable attached to the burner. The propane tank will be located by the office underneath the grill.
6. Heat the solution to a slow boil, then let it simmer for 3-5 minutes. Stir frequently with a shovel to ensure the sugar and agar have fully dissolved. The solution should be a translucent clear/yellow color at this point.
7. Using heat-resistant gloves, remove the pot from the burner to the ground.
8. Using the forklift, gently lift the pot above the macrobin with an additional set of hands holding the pot steady. Gently tip the pot into the macrobin.
9. Once all of the solution in the pot is in the macrobin, stir to ensure boric acid is fully dissolved in the solution.
10. Repeat steps 1-9 until total acreage is met (each batch is 1 acre)
11. Place the lid on the macrobin and wait until the solution has solidified into a jello-like substance, ~2 hours.
12. Once the solution is fully solidified, use a rake to break the jello substance up into quarter/gumball sized pieces.
13. Using gloves, scoop the substance into buckets.
14. Using a scooper and gloves, spread the ant bait throughout the block, placing the bait underneath the vine. Alternate rows, every 3-5 vines.

NFPAHealth
2Flammability
0Instability
1Physical hazards
N/A**6. Accidental release measures****Personal Precautions**

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

Environmental Precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Avoid dust formation.**7. Handling and storage****Handling**

Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.

Storage.

Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong bases.

8. Exposure controls / personal protection**Exposure Guidelines.**

| Component | ACGIH TLV | OSHA PEL | NIOSH IDLH | Mexico OEL (TWA) |
|--------------------|---|----------|------------|--------------------------|
| Boric acid (H3BO3) | TWA: 2 mg/m ³ STEL: 6 mg/m ³ | | | TWA: 2 mg/m ³ |

Legend*ACGIH - American Conference of Governmental Industrial Hygienists***Engineering Measures**

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment**Eye/face Protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard