



# **Activated EM!**

Activating good "effective" microbes for the soil and other uses. Activated EM is simply an economic way of using EM-1. This recipe extends the quantity of EM-1 by mixing it with molasses and water. The common uses of this formula are for body spray, household freshener, cleaner, plant spray. Also to make fermented bran (bokashi) as a compost accelerator, fermented bran as cat-litter or make mud balls to help clean a pond.

## **How to Make Activated EM**

## **Preparations**

- Water preferably warm tap water.
- Implements bowl or bucket to mix in, measuring cup, PET plastic bottle(s), and (optional) a funnel.
- Ingredients see list below.

## Ingredients

Activated EM

- 1 part EM-1
- 1 part molasses (blackstrap, unsulfured sugarcane molasses, or other such high sugar material)
- 20 parts water (optional: heated to 100-120°F to make it easier to dissolve the molasses; otherwise, simply dissolve the molasses with a clean hand)



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### How to Make Activated EM cont.

#### **How To Mix**

- 1. Using a bowl or bucket that holds at least 1.5 quarts or more, mix in the EM-1 and molasses; make sure to dissolve all of the molasses (if by hand, rub inside the bowl or bucket until it's all gone, i.e., you don't feel the thick molasses on the bottom anymore).
- 2. Pour the mixture into a quart (or liter) size PET bottle, such as, a soda bottle which can handle any gas pressure buildup. A funnel would be helpful to pour into the bottle.
- 3. Let ferment for about 2 weeks. Store out of direct sunlight.

  Optionally, you can use a pH meter or pH paper; when the pH is 3.7 or below, it is ready.
- Check Daily for gas build-up; release by very slightly opening cap; do so over a sink.
- When ready, apply as suggested below, and use within 45 days. Store out of sunlight. Prolonged sunlight will damage the microbes. Opaque container +
- Keep airtight and at room temperature.

### **Applications of Activated EM**

The oz/gallon refers to fl oz of Activated EM per 1 gallon of water.

- 1. Garden / houseplants
  - Use 1 oz/gallon for watering your garden and houseplants. You can apply with every watering or at least once a week.
- 2. **Foliar feeding** (spraying to the plant leaves): Use 0.5 oz/gallon for, or about 1 teaspoon/guart of water. Spray every other week or once a month.
- 3. **Regular laundry**: use half the amount of your laundry detergent and the other half with Activated EM.
- 4. **Stains:** Use 10 oz/gallon for tough stains, especially on grime, greasy or oily stains or buildup, including ovens, oven hoods, drains, etc. For best results, let soak for several minutes.
- 5. **Air Freshener:** Use 2 oz/gallon (2-3 teaspoons/quart) for odor problems, including urine, as well as for general cleaning (floors, windows, etc.). Use a spray bottle where useful.

Edited by DD Maucher, MosCollective.net 8/8/2010

Reference: Edited 5/27/2010 by E. Shig. Matsukawa & Eric Lancaster of GoodMicrobes.org. Their reference: EM Research Organization (EMRO) emro.

co.jp (English version: emrojapan.com)
TeraGanix (teraganix.com) dba EM America

EM-1 is OMRI Listed (Organic Materials Review Institute), omri.org, and can be used by certified organic operations.

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