



## ESRW – RINGWORM TREATMENT

**ESRW** is a natural biological topical application that will control the fungal spores that cause ringworm in animals and humans. Ringworm has nothing to do with worms; the name is derived from the characteristic red ring that will appear on the infected animal / person's skin. Ringworm is difficult to prevent as the fungus is very common, and it is contagious even before symptoms appear.

### WHAT CAUSES RINGWORM?

Ringworm is caused by an infection of the hair and surface layers of the skin by a spore forming fungi. Spores germinate and attack the shafts of the hair and the surface layers of the skin. Exudate, from the damaged skin, mixes with debris from skin and hair and forms a crusty scab. Typically, the ringworm scab is gray and white and higher than the surrounding skin. Infection spreads from the center outwards and results in the circular lesion 1 to 2 inches in diameter. Adjacent lesions may overlap and create larger infected areas. Generally, ringworm lesions appear on the head and neck, but, in severe cases, ringworm may be found over the entire body. Ringworm can be severe in confined animal operations during the winter. Generally, ringworm is less prevalent in the spring and summer.

### POTENTIAL TYPES OF RINGWORM:

Ringworm is caused by several different fungus organisms that all belong to a group called "dermatophytes." Different dermatophytes affect different parts of the body and cause the various types of ringworm.

- Ringworm of the scalp – found in humans and animals. Usually begins as a small pimple that becomes larger, leaving scaly patches or temporary baldness. Infected hairs become brittle and break off easily. Yellowish crusty areas may sometimes develop.
- Ringworm of the body - found in humans, animals, and soil. Generally shows up as a flat, round patch anywhere on the skin except for the scalp and feet. The groin is a common area of infection (groin ringworm). As the rash gradually expands, its center clears to produce a ring. More than one patch may appear and the patches can overlap. The area is sometimes itchy.
- Ringworm of the foot (athlete's foot) – lives only in humans - appears as a scaling or cracking of the skin, especially between the toes.
- Ringworm of the nails – lives only in humans – will cause the affected nails to become thicker, discolored, and brittle, which may or to become chalky and disintegrate.

**Note:** Scalp ringworm will usually appears 10 to 14 days after contact while ringworm of the skin usually appears 4 to 10 days after contact.

### **TO LIMIT THE OUTBREAK OF RINGWORM IN LIVESTOCK:**

1. Reduce animal density
2. Increase exposure to sunlight
3. Ensure corrals and barns are clean and dry
4. Spray corrals, barns, feed apparatus, halters, grooming equipment, etc. with **ESOC – Manure Odor Control**
5. At the first sign of ringworm (lesions) on animals, commence treatment using **ESRW**

### **TREATMENT OF RINGWORM USING ESRW:**

1. Simply dilute **ESRW** at a rate of 1:50 in warm (not hot) water
2. Apply twice per day for a period of 3 to 5 days
3. AIR DRY - DO NOT WIPE OFF

**NOTE:** Crust should be removed and burned to prevent further contamination.

### **SAFETY:**

**ESRW** is produced in accordance with NOSB (National Organic Standards Board) guidelines. The materials used in the production process are derived from naturally occurring and sustainable sources and are consistent with organic principals and the National List of Allowed Substances. **ESRW** does NOT contain synthetic chemicals, animal components, and animal by-products, manure or manure by-products. **ESRW** is environmentally safe and is not harmful to animals, plants and humans.

### **COMPLIANCE:**

Fully complies with EPA Toxic Substance Control Act (TSCA) and the rules, orders and regulations promulgated there under including:

- a) Sections 4, 5, 6 & 7; Title 40 Chapter 1, 707.20 thru 707.75;
- b) 40 CFR Sections 704.3. 710.2(e) and 720.3(c); and
- c) Sections 5 and 13, reference 42FR64583
- d) Does not contain marine pollutants as defined in 49 CFR 171.8.

### **STORAGE & HANDLING:**

Do **NOT** freeze. Store in a cool location away from direct sunlight - No special handling required

### **PACKAGING:**

1 Litre Jug