



## Using White Lightning with help from Linda Cowles

White Lightning helps to get the bacteria out of deep crevices in the hoof. There are several good Thrush soaks. For easy thrush infections there is Oxine, because it's cheap and easy... all you need is a soaker boot or zip lock bag! But White Lightning is what I recommend when thrush is chronic. I think that activated Oxine is almost identical to White Lightning.... but this way of using White Lightning works extremely well, so it's what I (Linda) suggest.

Information about White Lightning

[http://www.grandcircuitinc.com/white\\_intro.html](http://www.grandcircuitinc.com/white_intro.html)

Frontier Pharmaceuticals - What is Chlorine Dioxide?

<http://www.frontierpharm.com/dioxicare-system.php>

Frontier Pharmaceuticals

White Lightning Products from Grand Circuit

<http://www.grandcircuitinc.com/products.asp?cat=57>

Introduction to White Lightning from Grand Circuit

[http://www.grandcircuitinc.com/white\\_intro.html](http://www.grandcircuitinc.com/white_intro.html)

White Lightning® is safe to use, and unlike hypochlorite, does not produce toxic byproducts. Chlorine Dioxide is so safe, it is routinely added to orange juice and other consumer foods and beverages to kill contaminants and prevent spoilage. Chlorine Dioxide is even used by dentists in periodontal work. Not only is ClO<sub>2</sub> safe, but it is up to seven times more effective than chlorine bleach.

Chlorine Dioxide is an unstable gas...meaning it cannot be stored in a container, but rather must be generated when needed. This is accomplished by adding equal amounts of White Lightning® to a mild acid such as white vinegar. A chemical reaction then occurs generating ClO<sub>2</sub>. After a period of time, all gas is released and the resulting liquid is inert and totally harmless. In the case of the White Lightning® Gel, the same reaction occurs. The Gel is easier to use and is the better choice in certain applications.

White Lightning® Gel is made by Howard Alliger of Frontier Pharmaceutical. Mr. Alliger has devoted his life to ClO<sub>2</sub> and has even testified before the Homeland Security Commission on biological attacks. Remember Anthrax after 9/11? Chlorine Dioxide was used to make the Senate Office Building safe to occupy.

Gel or Concentrate?

Linda: I've been told that people have had success with using the Gel by cleaning the frog thoroughly, applying White Lightning Gel into the cracks and crevasses then covering with a film of Desitin Ointment to seal it. Again, I tend to go with the concentrate for severe cases, but this sounds promising for retreatment and mild cases.

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## Getting Started

White Lightning and white vinegar combine to make a solution that "fumes" the hoof in a vapor bag or vapor boot for 30 to 40 minutes. Fuming can be done for shorter periods of time, and the White Lightning people recommend 12 hours or more for severely corroded frogs. A plastic bag can be used to contain the fuming solution or a special vapor boot can be purchased from Grand Circuit. <http://www.grandcircuitinc.com/proddetail.asp?prod=vapor%2Fsoakboot> ,

DUCT TAPE BOOTIE - An alternative is to use duct tape alone or to wrap the bagged hoof in order to protect it. Because this is the most complicated way, I've included pictures of how to do this.

Leave the vapor boot/bootie in place for 30 to 40 minutes for mild to medium cases. Boots can be left in place for up to 12 hours for aggressive treatments when the frog is riddled with infection.

Gather:

- White Vinegar
- Vet Wrap (optional)
- Loose or roll Cotton
- Scissors for cutting vet wrap and duct tape
  - Optional: Grand Circuit Vapor / Soak Boot
  - Cut enough duct tape to make several wraps around the fetlock



Hoof Prep

Getting the frog cleaned up is important!

Trim any loose skin and remove any "wormy" looking frog and remove flaps of skin that create folds and crevices. I don't reduce the size of the frog any more than necessary. This central sulcus has been eaten away by thrush, and the crevice between the heel bulbs has become infected by thrush as well. Use the syringe to squirt solution deep into the cracks and cotton.





Duct tape booties only work in soft environments where a horse's movement is restricted. Seal the fumes in at the back of the foot by taping up over the bulb of the foot.



### Creating a Duct Tape Bootie

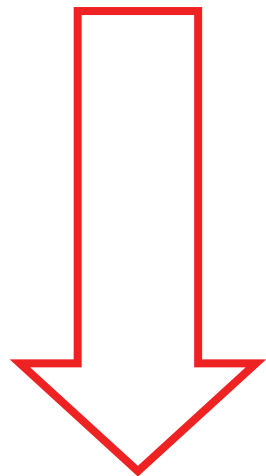


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### Creating a Bag Bootie (can cover with a boot)

Place a durable plastic bag over the hoof and let the horse put its foot down. I suggest getting large used drip IV bags from your vet. They are free and very durable. Place the foot in a boot or protect the bag with layers of duct tape to make a bagged duct tape bootie.



**White Lightning can also be used to clean up white line separation.**

**But none of this is a replacement for correct trimming, where the restoration of circulation allows the hoof to heal from the inside out. And without good nutrition the body will not receive the building blocks to heal either.**

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