

T.R. Bio Klean

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Disposal Guidelines

T.R. Bio Klean is a product that incorporates several chemicals and "carriers". Fully one half of the product is the polymer "carrier" that entraps the "actives" which are released slowly over a period of time when subjected to water. The polymers used are the same safe materials as those used in the manufacture of contact lenses. The other half of the ingredients are made up of surfactants, odor counteractants, fragrance, corrosion inhibitors and a quaternary ammonium compound. The quaternary ammonium compound referred to, as Quat is a biocide the U.S. EPA classifies as a pesticide. Quats are in fact used universally for medicinal purposes. This is the only ingredient that requires addressing as regards disposal. This quat makes up 20% of the product.

This product is not classified as a hazardous waste. Hazardous waste is generally applicable to products that meet the following criteria: Ignitable, Reactive, Corrosive, Infectious Medical Waste or TCLP Toxic. None of which apply to our product. None of the ingredients of T.R. Bio Klean are listed as hazardous per EPA 40 CFR 261.33 (e).

In the unlikely event it becomes necessary to dispose of unused product you may ship, freight prepaid, directly to Quest Environmental Products, Inc. for disposal or recycling.

Product that has been in service for 90 days or more will have released a minimum of 50% of the Quat and can generally be safely and legally disposed of by incineration preferably or in a landfill.

As regulations vary from state to state, and occasionally change, you should check with your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office and verify that these guidelines are acceptable.

While the label does say not to contaminate water, food or feed this pertains primarily to "concentrated" amounts of the active biocide in the product. The Federal EPA dictates the warnings and instructions on the label. This same warning is attached to the concentrated biocide I use to manufacture the product. This would seem to indicate "overkill" when applied to T.R. Bio Klean. In fact this same quat is approved for use in swimming pools at low doses.

This product has been on the market since 1988 and to date there have been no adverse affects of any kind reported due to use or disposal of the product.

Please feel free to call me at 321-984-4423 if you have any questions.

Fred K. Ungerer
Quest Environmental Products, Inc.