**Request for Approval**

**Chemical Treatment of Liquid Infectious Waste**

Approval for chemical treatment of liquid infectious waste must be obtained from the NC Division of Waste Management. Please provide answers to the following questions, attach supporting documents as outlined below, and submit your request to EHS Biosafety Group, CB #1650. EHS will submit your request to the NC Division of Waste Management.

**Request for approval must be substantiated by results of demonstrated effectiveness of the chemical to treat the specific microbiological agent(s) of concern for the waste disposed.**

*I.* Description of infectious waste

a. Describe waste to be treated (i.e. cultures, cell lines):

b. Organisms present:

c. Estimated concentration/titer of organisms:

d. Other material present in waste (i.e. other organic material):

e. Volume of waste and frequency:

II. Description of treatment procedures

a. Summarize proposed procedure for treating waste: b. Disinfectant to be used (please attach MSDS):

i.

c. Disinfectant concentration:

i.

ii.

d. Ratio of disinfectant (ml) to liquid waste (ml):

e. Contact time of disinfectant with liquid waste prior to disposal:

f. Small variations in temperature, time, pH, concentration and state of dispersion, penetrability, reactivity of organic material may make large differences in the effectiveness of disinfection. List the factors that may affect disinfection:

III. Verification of efficacy of treatment procedures

a. Submit results of experiments that verify the proposed procedures are effective.

Such studies may include attempts to recover and quantitate the agent from liquid or swab samples, or sealed patches, by animal inoculation, plaque assay, agar or broth cultivation and similar methods, following controlled decontamination under the same experimental conditions envisioned for proposed studies.

Reports of these studies should be provided with this document in support of your request.

b. Please attach any publications that will support the use of this disinfectant under the proposed conditions. These publications cannot be provided in lieu of the experiments described above unless the publication describes the same treatment procedures for the infectious waste described in Section I (including concentration of organism, organic material present, type of waste, organisms).

IV. Appendix