DATA MANAGEMENT AND SHARING PLAN

Element 1: Data Type

A. Types and amount of scientific data expected to be generated in the project:

This proposal will generate scientific data related to polymeric formulations of chlorinated *N*-Halamine. This data will include pH, solubility, chlorine load, and skin sensitivity around each formulation. Additional data will be generated by CROs that detail the performance of the formulations against *in vitro, ex vivo, and in vivo* situations against bacterial colonies.

B. Scientific data that will be preserved and shared, and the rationale for doing so:

All scientific data, including that from CROs will be preserved in local storage. Based on the SBIR/STTR Program Policy Directive, all data will be withheld from sharing for 20 years after the award date.

C. Metadata, other relevant data, and associated documentation:

Any additional data generated will be preserved in local storage, and again, based on the SBIR/STTR Program Policy Directive, all data will be withheld from sharing for 20 years after the award date.

Element 2: Related Tools, Software:

AvantGuard will not be using or developing specialized tools/software or generate code as part of this project.

Element 3: Standards:

We will apply common data standards to the scientific data and associated metadata generated in this proposal. Where formal standards have not been widely adopted, we will structure and describe our data and materials according to best practices. Data will be stored in common and open formats in secure local storage platforms that can be accessed by the research team. Information about research protocols and analysis process will be recorded and maintained contemporarily using lab notebooks, which will be accessible to the research team and shared alongside our data.

Element 4: Data Preservation, Access, and Associated Timelines

A. Repository where scientific data and metadata will be archived:

All scientific data will be preserved in local storage. Based on the SBIR/STTR Program Policy Directive, all data will be withheld from sharing for 20 years after the award date.

If we choose to share scientific data prior to that timeline, we anticipate that the data will first be published in a primary scientific journal. We will follow all journal-specific requirements for data accessibility and data sharing. In addition, we will respond to requests for data reanalysis or assistance in replicating research and will be open to collaboration with outside groups who express an interest in our work.

B. How scientific data will be findable and identifiable:

All scientific data will be preserved in local storage. Based on the SBIR/STTR Program Policy Directive, all data will be withheld from sharing for 20 years after the award date.

C. When and how long the scientific data will be made available:

All scientific data will be preserved in local storage. Based on the SBIR/STTR Program Policy Directive, all data will be withheld from sharing for 20 years after the award date.

Element 5: Access, Distribution, or Reuse Considerations

A. **Factors affecting subsequent access, distribution, or reuse of scientific data:**

Access, distribution, and reuse of scientific data are impacted by potential use cases and intellectual property protections. Significant discoveries will be published and/or commoditized as best meets the social and business practices at the time for AvantGuard.

B. **Whether access to scientific data will be controlled:**

Data produced by AvantGuard for in-house research may be published and made accessible via journals and data repositories.

C. Protections for privacy, rights, and confidentiality of human research participants:

AvantGuard is not generating data derived from humans.

Element 6: Oversight of Data Management and Sharing

Compliance with this plan will be monitored and managed by the PI of this proposal.