



PRODUCT BROCHURE

Bioxy's **Aqua Detoxifier** is the latest innovative technology for the treatment of fracking, coal seam gas, and mining wastewater. **Aqua Detoxifier** was scientifically formulated to lower sodium and metal levels/toxicity; reduce Electrical Conductivity and Total Suspended Solids, and remediate residual hydrocarbons. **Aqua Detoxifier** is an "on-site" treatment tool that enhances wastewater recycling by creating increased volumes for re-use while reducing the contaminants in the remaining water for lower disposal costs. **Aqua Detoxifier** is a unique formula containing a patent pending Advanced Organic Polymer (AOP). The AOP in **Aqua Detoxifier** is an ultra-pure balance of beneficial carbon groups that acts as a natural buffering agent and creates a stable treatment environment. The AOP also acts as a sequestering agent, binding metal ions into an insoluble stable complex that becomes a non-toxic organic metal complex and mineral.



As a chelating agent, **Aqua Detoxifier** detoxifies poisonous metal agents by converting them to a less toxic biochemically inert form while providing an unprecedented capacity to capture and absorb a wide array of contaminants found in oil and gas and mining wastewater. In addition to the AOP, **Aqua Detoxifier** contains hydrocarbon-oxidizing bacteria and a broad-spectrum amino acid complex that speeds up the natural degradation process by efficiently catalyzing complex organic hydrocarbon molecules found in wastewater. **Aqua Detoxifier** is designed to quickly reduce sodium levels and toxicity, improve water clarity, reduce electrical conductivity, and total suspended solids. **Aqua Detoxifier** helps minimize scale formation due to reduced metal/mineral salts and is a water treatment tool that requires limited equipment. Therefore, **Aqua Detoxifier** delivers a significant competitive advantage over alternative products for the treatment of related industrial wastewater.



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Application Information

Aqua Detoxifier is a highly concentrated liquid and must be diluted with water prior to applications. **Aqua Detoxifier** can be sprayed or injected after dilution using standard spray application equipment including but not limited to mechanical sprayers, water trucks, fixed spray equipment, and wastewater injection. For optimal performance, product is to be applied evenly across the entire water surface, and/or supplied under continuous injection through the transfer lines. **Aqua Detoxifier** is designed for the treatment of the wastewater generated through oil and gas production (drilling fluids, flowback and produced water) coal seam gas exploration and mining that contains various levels of sodium, trace metals, hydrocarbons, and all by-products of production. The treatment of these waters can be completed by injection at the point of generation and/or at the holding ponds. Effective treatment is possible within the existing disposal structure with limited need for additional equipment or staff.

Application Rates

Dilute using 1 part concentrate to 10 parts clean water prior to use (Non-Potable water may be used though it may require pre-treatment). Product can be diluted up to 100 parts water as directed for specific applications. Application rates/frequency is determined by level of contamination, area of application, expected residence time, and disposal requirements. Specific application rates are determined prior to sale by the manufacturer and/or distributor. Water between 42° and 120° F (6° and 50° C) gives optimum performance.

General Lagoon/ Pond/Dam Applications

General application rate per treatment for ponds/lagoons/dams is 350PPM diluted product per treatment based on the system requirements and goals to be achieved. Normal treatment programs will require a minimum of two applications applied a minimum of 24 hours apart. Multiple treatments may be required due to contaminant loading and/or final water quality that are being achieved.

Technical Information

Storage: Do not store product in direct sunlight. Insure that the product remains under 120°F (50°C) and will not freeze.

Shelf Life: Properly stored unopened containers have a shelf life of 2 years, 1 year after opening. Product should be applied within 48 hours after dilution and stored in a vented tank and/or container. Should the product freeze in storage, do not apply heat to thaw, remove product to room temperature conditions and let thaw normally.

For more information, please visit our website at www.bioxyresearch.com or contact us at info@bioxyresearch.com.