

# Advanced BioTech

*Developer of BioWorld Products*

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## *Odor Control Products*

- **Best Odor Neutralizer Products in the World!**
- **Several technologies depending on the odor.**
- **Safe products and equipment to eliminate virtually every odor!**

### **No More Offensive Odors**



### **Also available from BioWorld Products**

- **Bioremediation Products**
- **Wastewater Treatment Products**
- **Algae Control Products**
- **Agricultural – Soil Enhancement**

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## ODOR CONTROL TECHNOLOGY

### BioWorld of California USA

#### Advantages

- Unpleasant odors - making them undetectable
- Concentrated odor-neutralizing - eliminates odors.
- Economical.
- Easy to use.
- Environmentally safe.



#### What It Is

BioWorld Odor Neutralizer (BON) is a unique industrial strength formulation of natural organic agents that eliminate offensive odors at the source

#### What It Does

Eliminates airborne or surface odors from almost any cause. BioWorld easily eliminates odors from:

- Cooking
- Waste materials
- Smoke
- Paints and solvents
- Chemicals – Pesticides, Ammonia, etc.
- Gases, etc. Cleaners

#### Where to use

- Simply spray BioWorld into the air or apply directly to the source or add to chemicals and paints.
- BioWorld can also be mixed with most cleaning solutions.
- Agricultural, Industrial, Factories, Laboratories, Hospitals Schools, Restaurants, Government Facilities

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BioWorld Odor Neutralizer (BON) is a new technology formulation in a concentrated liquid form that eliminates offensive odors at the source. BON consists of safe odor neutralizing compounds made from natural biodegradable ingredients and materials.

While most products only mask odors with strong scents like perfumes, BON totally neutralizes and mitigates unpleasant odors without leaving a cover-up scent. Also, BON will not alter the chemical composition of materials. BON can be used in concentrated form or diluted to treat virtually any odor challenge in air, water or surface applications.

BON is environmentally safe, non-hazardous, non-toxic, non-corrosive and non-flammable. BON concentrate is safe even when in contact with human skin or animals.

Use in large projects for fogging, or adding to paints, adding to chemicals, adding to wastewater, composting facilities, garbage landfills, large buildings, factory emissions, food processing emissions, dispersed into the air using BioWorld specialized equipment and many other applications.

## **BioWorld Odor Neutralizer (BON-CC-41)**

- #41326—32 ounces, 1 liter
- #41014—1 gallon, 3.8 liters
- #41064—6 gallons, 22.7 liters
- #41250—250 gallons, 950 liters

## **BioWorld Odor Neutralizer (BON-SA-45)**

- #45027—2 ounce sprayer, 59 milliliters
- #45326—32 ounces, 1 liter
- #45014—1 gallon, 3.8 liters
- #45054—6 gallons, 22.7 liters
- #45250—250 gallons, 950 liters



## **Composition and Physical Properties**

Natural Odor Neutralizing Compounds

Minerals & Esters

Special Process

Extracts Product

Stabilizers pH: 6.0-

8.0 at 25°C Boiling

Point: 100°C

Freezing Point: 1.0°C

Solubility in Water: 100%

Specific Gravity: 1.0028

Appearance: Clear

Odor: Fresh Scent BON can be misted or fogged into the air or applied directly to the odor source.

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## Representative Odor Control Projects

### Project Summary #2168 (Chemical Spill Odors in Administrative Offices)

An accidental chemical spill took place in a 4-story NASA office complex in Florida. The incident took place on a late Friday afternoon and the building was evacuated. The chemical had been safely removed and the Industrial Hygienist had determined that the facility was completely safe to be reoccupied by the workers yet the odor still lingered. The building windows and doors were opened to circulate the air but the odor remained. The concern was that the employees would object to working in the facility due to perceived health issues. The Environmental Health Manager located BioWorld via the Internet, called for information, and requested immediate shipping of the BioWorld Odor Neutralizer (BON) and a fogging unit. FedEx delivered the product on Saturday morning. A 5-gallon unit of BON was fogged into the HVAC intake for approximately 2 to 3 hours. The odors were completely mitigated and the facility was in condition to be reoccupied without losing any workdays.



### Project Summary #1280 (Fogger used to Neutralize NH<sub>3</sub> Odor in Fiber)

An anhydrous ammonia leak occurred in the freezer warehouse of a Central California food processor. The cardboard boxes containing the frozen fruit wrapped in plastic became impregnated with an ammonia odor. Warming the boxes to outgas the ammonia would have rendered the frozen fruit worthless and unmarketable. A fogger unit containing BioWorld Odor Neutralizer was used on each box removed from the warehouse prior to shipping. The ammonia odor was eliminated for less than one thousand dollars. The frozen fruit was sold, at regular price, for several hundred thousand dollars.

### Project Summary #890 (Odors from Fish Vapors out of Stacks)

An anchovy fish processor in Baja California, Mexico is located adjacent to an exclusive beach resort. During the fish processing operation, 5,000 liters (1,250 gallons) per day of water is used



in a stack misting system designed to control odor emission. Over the years, several odor-masking products have been tried in the misting system in an attempt to reduce offensive odors. However, significant odors still existed. BioWorld Odor Neutralizer was added to the water in the misting system and the odors were completely eliminated. On-going



treatment has controlled the fish odor emanating from the facility. Visitors at the resort have stopped filing complaints.

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## **Project Summary #1163 (Composting Odors Minimized)**

During the grape crushing process at a California winery, the pumice and stems are laid out in windrows for composting. Wastewater from the winery collects in a sump and is pumped through a linear move irrigation system to irrigate the windrows. In addition, a spray rig is used to add water to the compost. Several products were added to the spray rig in an attempt to help reduce odors, but significant odors still emanated from the compost windrows. Numerous complaints were received by local regulatory agencies. As a result, BioWorld Optimizer Plus was metered into the sump wastewater used for irrigation. Also, BioWorld Odor Neutralizer was added to the spray rig. The odors associated with the composting operation were completely eliminated in a few days. On-going treatment has continued to control odors.



## **Project Summary #3242 (Asphalt Odor Project)**

Asphalt odors from roofing the building were causing the office staff to be less productive. Some people were complaining of headaches and stomach aches. The BON was sprayed into the HVAC intake which dispersed the BioWorld Odor Neutralizer throughout the facility. The odors were mitigated within an hour and productivity was increased. The maintenance staff continued to spray the BON until the roofing process was completed.

## **Project Summary #10169 (Hydrocarbon Odor Project)**

An excavation and removal of oil contaminated soil was required in the San Francisco California area. The construction site began having major odor issues during excavation. The engineering firm contacted BioWorld for a rapid resolution because the homeowners and business people in the surrounding area were complaining.

BioWorld shipped the BON CC 41 formula to the site and provided application instructions for the project manager. The BON neutralized the odors for 5 weeks during the excavation and there were no complaints about odors from anyone after BON was used.

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## Durable Foggers – Hand-held and Drum mounted

Easy to use – carry from place to place. Available in 110v and 220v.



Special Hose Unit for tight areas. Auto detailing, inside attic, interiors, under beds, etc.



Special Units that fit right on product drums. Use in large warehouses or outdoors.



**Custom Designed Turn-key Industrial Fogging Systems also Available**