

# MATERIAL SAFETY DATA SHEET

## BioWorld Odor Neutralizer BON – DSA – Formula 49

\*Identify\*

BioWorld Products LLC  
Manufacturer

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Address

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MSDS Number\*

CAS Number\*

4/15/03  
Date Prepared

db/tih  
Prepared By

### SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

| Components - Chemical Name & Common Names<br>(Hazardous Components 1% or greater; Carcinogens 0.1% or greater) | %*   | OSHA<br>PEL | ACGIH<br>TLV | Other Limits<br>Recommended |
|----------------------------------------------------------------------------------------------------------------|------|-------------|--------------|-----------------------------|
| None Known                                                                                                     |      |             |              |                             |
| Non-Hazardous Ingredients:                                                                                     | 100% |             |              |                             |
| Esters                                                                                                         |      |             |              |                             |
| Natural Odor Neutralizing Compounds                                                                            |      |             |              |                             |
| Special Process Extracts                                                                                       |      |             |              |                             |
| Product Stabilizers                                                                                            |      |             |              |                             |
| Water                                                                                                          |      |             |              |                             |
| <b>Total</b>                                                                                                   | 100% |             |              |                             |

### SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

|                                                      |                                                 |
|------------------------------------------------------|-------------------------------------------------|
| Boiling Point: 212° F / 100° C                       | Specific Gravity (H <sub>2</sub> O = 1): 1.0028 |
| Vapor Pressure (mm Hg and Temperature): Not Volatile | Freezing Point: 14° F / -10° C                  |
| Vapor Density (Air = 1): Not Volatile                | Evaporation Rate (_____ = 1): N/A               |
| Solubility in Water: 100%                            | Water Reactive: No                              |
| Appearance and Odor: Cloudy White; Fresh scent       | pH: Range 6 to 8                                |

### SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

|                                      |                                   |                                                          |      |      |
|--------------------------------------|-----------------------------------|----------------------------------------------------------|------|------|
| Flash Point and<br>Method Used: None | Auto-Ignition<br>Temperature: N/A | Flammability Limits in<br>Air % by Volume: Non Flammable | LEL: | UEL: |
|--------------------------------------|-----------------------------------|----------------------------------------------------------|------|------|

Fire Fighting Media: Use media proper for primary cause of fire

Special Fire Fighting Procedures: None Known

Unusual Fire and Explosion Hazards: None Known

## SECTION 4 - REACTIVITY HAZARD DATA

|                                                                                                                   |                                 |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Stability<br><input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable                         | Conditions to Avoid: None Known |
| Incompatibility (Materials to Avoid): Reducing agents or strong oxidizing compounds                               |                                 |
| Hazardous Decomposition Products: None Known                                                                      |                                 |
| Hazardous Polymerization<br><input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will not Occur | Conditions to Avoid: None Known |

## SECTION 5 - HEALTH HAZARD DATA

Acute Toxicity: (EPA, FIFRA and OCED Guidelines 401, 403, 404 & 405)

**Oral Toxicity:** Toxicity Category IV for Oral LD50      **Dermal Toxicity:** Toxicity Category IV for Skin Effects

**Inhalation Toxicity:** Toxicity Category IV for Inhalation LC50

**Eye Irritations:** Maximum mean irritation score of 4.0/110.0 in unwashed eyes, classifying the product in Toxicity Category III.

EPA-FIFRA Irritation Test Toxicity Ratings:

Category I – Danger – Corrosive (irreversible destruction of ocular tissue) or corneal involvement of irritation persisting for more than 21 days

Category II – Warning – Corneal involvement of irritation clearing in 21 days or less

Category III – Caution – Corneal involvement of irritation clearing in 7 days or less

Category IV – Caution – Minimal effects clearing in less than 24 hours

DOT Corrosive: No.      Primary Route(s) of Entry: Absorption/Contact

Signs and Symptoms of Exposure: Symptoms of Ingestion: No effects of exposure expected.

Symptoms of Inhalation: No effects of exposure through spray application expected. Extremely Rare - Minor irritation of mucous membranes, sneezing or watery eyes.

Symptoms of Skin Contact: No effects of exposure expected.

Symptoms of Eye Contact: No effects of exposures expected in normal use.

Medical Conditions Generally Aggravated by Exposure: No data found. Extremely Rare - Individuals with asthma or severe allergies should avoid direct inhalation of product mist or fog.

**Emergency First Aid Procedures** - Seek medical assistance for further treatment, observation, and support if necessary.

Eye Contact: No Known Effects – In an Extremely Rare eye irritation, irrigation with running water. Contact physician if irritation persists.

Skin Contact: No Known Effects – In an Extremely Rare skin irritation, wash in running water.

Inhalation: Seek fresh air location. If breathing is difficult, look for primary cause of breathing problem. (BON is nontoxic) Oxygen may be given, preferably with a physician's advice. If not breathing, give mouth-to-mouth artificial respiration. Get medical attention.

Ingestion: General precautionary measures suggest giving several glasses of water. Do not give anything to an unconscious or convulsing person. Contact physician if conditions persist.

## SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type): In routine operation, none needed with good ventilation. Use NIOSH approved respirator if adequate ventilation cannot be provided.

Skin Protection: May Wear Rubber Gloves if Desired

Eye Protection: Normal spray application – none needed. During fogging operations at dilution rate of 32 to 1 or greater – none required

**Ventilation  
to be Used**

N/A Local Exhaust

Mechanical (general)

Special

Other (specify) Use adequate ventilation where containers are being opened

## **SECTION 7- PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES**

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Precautions to be Taken in Handling and Storage: Avoid storing below 32° F or above 120° F. Keep container sealed. May be stored outside.

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Spill/Leak Clean-up Procedure: Contain spill. Flush spill area with water. Mop up or vacuum. Dispose of liquid waste according to Federal, State and local regulations.

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Other Precautions and/or Specific Hazards: Avoid deodorizing enclosed environments where flammable/explosive (natural gas, LPG methane, petroleum fuels), toxic and carcinogenic substances are or could be present. Do not use BON with toxic or dangerous materials where odor from such materials is the only warning of their presence.

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## **SECTION 8- TRANSPORTATION DATA**

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DOT Shipping Name/Hazard Class: Not Regulated

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Hazardous Ingredients: None

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BioWorld Products makes no warranty, expressed or implied, as to the accuracy, completeness or reliability of information herein except that such information is, to the best of our knowledge and belief, accurate as of the date indicated. **By the standards of the EPA, FIFRA, OECD, DOT and the States of California and New Jersey, BioWorld Odor Neutralizers are considered Non-Toxic and Non-Hazardous.**