



Bioscience, Inc.  
Environmental Products & Services  
ISO 9001:2015 Certified

## MICROCAT®-VNBAF2

### Nutrient Blend for Biological Air Filters



### Description

**MICROCAT-VNBAF2** is a specialty blend of macro and micronutrients for use in stimulating biological activity and maintaining the biomass in biological air filters. **MICROCAT-VNBAF2** provides a unique, balanced blend of minerals selected for their ability to maintain the microbial communities contributing to the success of biological air filters. It is formulated specifically for use with sulfur oxidizing bacteria with or without **MICROCAT** microbial inocula to enhance the rate and consistency of biological processing of gaseous streams containing odiferous organic and inorganic substances.

### Applications

Contaminated airstreams are typically deficient in the minerals needed to support optimum absorption and biodegradation of the contaminants in biofilters. Such deficiencies limit the effectiveness of the filter requiring the addition of a balanced blend of salts to provide the elements and cofactors to maintain the appropriate mixture of microbes. A healthy biomass continuously and effectively biodegrades the absorbed contaminants such as organic acids and hydrogen sulfide.

## Product Characteristics

|            |  |
|------------|--|
| Appearance | White powder   |
| Contents   | Nitrogen, phosphorus, calcium, magnesium, iron and trace mineral salts |
| Shelf Life | Five Years   |
| Packaging  | Forty-four pound (20 Kg) bags on 2200 lb (1,000 Kg) skids              |

## Application Programs:

**MICROCAT-VNBAF2** is applied at the rate recommended by the biofilter equipment supplier. Specific application rates may be determined by field testing in the full-scale unit. Contact your Bioscience, Inc. Technical Representative to prepare a detailed, coordinated application program to fit your program.

## Optimal Application Conditions

MICROCAT – VNBAF2 will accommodate a wide range of application conditions. For best results, apply this product under the following conditions:

| CONDITION   | RANGE   | OPTIMUM |
|-------------|---------|---------|
| pH          | 6 – 9   | 7       |
| Temperature | 10 – 40 | 35      |

Note: When operating sulfide oxidation reactors with Thiobacillus-like microbes, the pH may normally be quite acidic (1-3). If you are operating outside these ranges, contact your Bioscience, Inc. Technical Representative for recommendations.

## Storage and Handling

|          |  |
|----------|--|
| Storage  | 45° - 105° F (7° - 40° C)<br>Dry conditions; DO NOT FREEZE.  |
| Handling | CAUTION Avoid inhalation of dry powder or liquid mist. Avoid exposing skin to dry powder or strong solution as irritation may result. If material contacts skin or eyes, flush thoroughly and repeatedly with water. |

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