

# Odor Free<sup>TM</sup>



GeoKleen, Inc. is listed by NSF International  
Reg. No. 136257 Category Code C1

**BIOENZYMATIC CLEANER Odor Controller, Carpet & Upholstery Cleaner And Stain Remover**

## PRODUCT DATA SHEET

### NOT A COVER UP

#### Goes to the source of odor and eliminates it.

**Odor Free<sup>TM</sup>** is a ready to use formula specifically designed to eliminate objectionable odors in household, institutional, and industrial settings. **Odor Free<sup>TM</sup>** is a technologically advanced odor controller and carpet & upholstery cleaner that combines the fast action of chemistry with the long-term benefits of microbes.

#### The Chemistry of Odors

Odors are perceived due to the interaction of odor molecules with olfactory receptors in the nose. To cause odor, compounds must be volatile to travel to the nose and must possess chemistry to stimulate olfactory receptors. Historically, odor control has usually involved the application of perfumes or odor maskants, which do not eliminate odor but actually increase it by adding another less objectionable odor to overpower the malodor. Chemicals, which interfere with the olfactory receptors, may be used to deaden the odor response. In both cases the odor compounds and any toxic effect they may have are not eliminated.

**Odor Free<sup>TM</sup>** actually captures and destroys the odors, instead of simply covering them up.

- A novel chemical formulation instantly binds odor causing molecules.
- A proprietary microbial consortium destroys the bound odor molecules.

#### Intensive Research and Development

**Odor Free<sup>TM</sup>** is the result of intensive R&D efforts to engineer a household and industrial odor controller and carpet & upholstery cleaner that goes well beyond the capability of other products available.

To prevent the return of the odor, specialized microbes convert the odor-causing organics to benign cellular components plus odorless carbon dioxide and water. This combined chemical and microbial effect makes **Odor Free<sup>TM</sup>** a powerful yet safe and environmentally friendly odor controller and carpet & upholstery cleaner..

**Odor Free<sup>TM</sup>** also contains sophisticated, non-resoiling cleaning capabilities designed specifically for carpet and upholstery stain removal.

#### Applications

**Odor Free<sup>TM</sup>** is designed to provide optimum odor reduction and organic stain removal benefits in multiple applications:

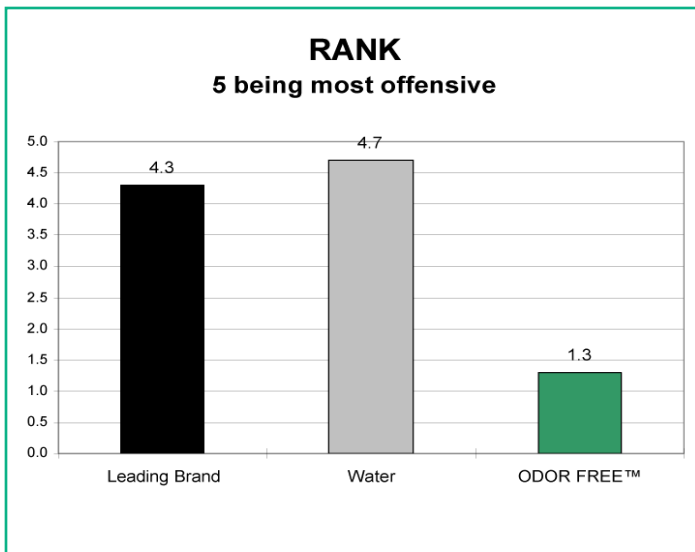
- Carpet and Upholstery Cleaner
- Carpet Stain and Odor Eliminator
- Upholstery Stain and Odor Eliminator
- Automotive Carpet & Upholstery Cleaner
- Garbage Collection Areas
- Loading Docks
- Bathrooms
- Pet Areas
- Garage and Basement
- Fitness Facilities
- Laundry Rooms

#### Odor Free<sup>TM</sup> effectively controls all major classes of malodorous compounds:

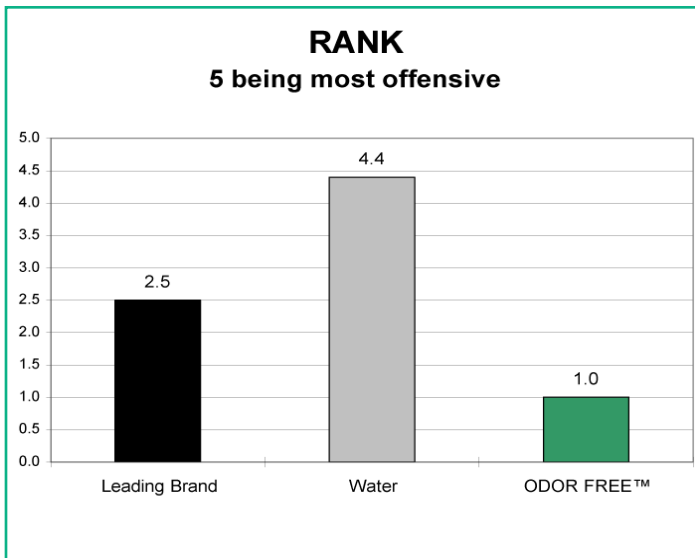
COMPOUND	TYPE	REDUCTION VS CONTROL
Hydrogen sulfide	Sulfide	92%
Ammonia	ammonia	46%
Dimethylamine	amine	46%
Trimethylamine	amine	49%

**Figure 1:** Gas analysis in headspace 2 hours after 2 mls **Odor Free<sup>TM</sup>** are mixed with 9 mls of highly concentrated solutions. Analytical results are compared to water controls.

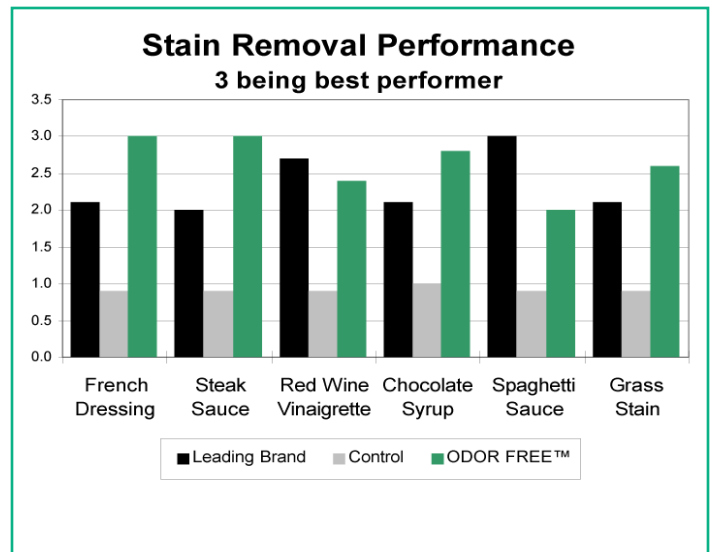




**Figure 2:** **Odor Free™** was added to fresh cat urine and incubated at 20 degrees for 5 days. Results based on chemical and biological action are far superior to market leader.



**Figure 3:** Odor panel testing demonstrates **Odor Free™** controls volatile fatty acid odor represented by butyric acid better than the leading brand. Such odors include perspiration, garbage and odors associated with anaerobic environments.



**Figure 4:** Overall performance of **Odor Free™** as a stain remover was rated 18% better than the leading brand.

### Product Characteristics

Bacteria Specification ..... 5.4X10<sup>7</sup> cfu/ml (200 bil cfu/gal)  
 Bacteria Type.....Blend of Bacillus spores.  
 pH .....7.5 – 8.5  
 Appearance .....Slightly cloudy liquid  
 Fragrance .....Mild, clean fragrance.  
 Stability .....2 years + at 35° - 95° F (2° - 35° C)

### Available Packaging

- 1 Quart bottle
- 1 Gallon jug
- 5 Gallon pail
- 55 Gallon drum

### Storage and Handling

Store in a cool dry place. Wash hands thoroughly with warm, soapy water after contact. Avoid eye and skin contact. Apply as direct spray, not as atomizer.

### Directions for Use

- Extraction Machine: 4-8 ozs per gallon
- Spot Cleaning: Use Concentrate
- Odor Control: Use Concentrate

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