

Bioremediation, Inc.

Baad Bugs Surface Cleaner/ BioRem 2000 Surface Cleaner/ Oil Digestant ™

Tests & Analysis

The information and conclusions cited are based on independent data and testing of Baad Bugs Surface Cleaner ™.

Pathogenicity of micro-organisms

All micro-organisms are for food-product generation and are considered food-grade safe for food production applications and are listed on GRAS ("Generally Regarded as Safe").

Nonhuman Toxicity:

Acute Morality Studies:

Oral LD₅₀ (rat): >5.0 g/kg body weight

Dermal LD₅₀ (rabbit) >2.0 g/kg body weight

Dermal Irritation:

Only mild irritation was found in a standard 72-hour test on rabbits. A value of 0.1 (non-irritating) was found on a scale of 8.

Eye Irritation:

With or without rinsing with water, the irritation scores in rabbits at 24 hours did not exceed 15 (mild irritant) on a scale of 110.

Subchronic

Dermal Effects:

No adverse effects were found in rabbits exposed to Baad Bugs Surface Cleaner (up to 2.0 g/kg/day for 13 weeks) applied to the skin of 25 males and 25 females. Detailed microscopic examination of all major tissues showed no adverse changes

Fertility Assessment by Continuous Breeding:

The Baad Bugs Surface Cleaner formula had no adverse effects on fertility and reproduction in CD-1 mice with continuous administration for 18 weeks, and had no adverse effect on the reproductive performance of their offspring.

It has been tested for toxicity and health hazards in accordance with the procedures for the Federal Hazardous Substance Labeling Act, as outlined in the Code of Federal Regulations, Title 16 Chapter 11 paragraph 1500, 40 1500, 42, CFR 1611C1500.3, and Guinea Pig Skin Sensitivity Test.

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Non-pathogenic Bacteria

The microbes utilized in Baad Bugs Surface Cleaner ™ are subjected to stringent anti-biotic screening using Standard Microbiological Practice and Good Laboratory Practice (GLP).

Strains used in Baad Bugs Surface Cleaner ™ are all classified in Bio safety class 1, non-pathogenic. A designation for well-characterized agents not known to cause disease in healthy adult humans, and of minimal potential hazard to laboratory personnel and the environment. Special containment equipment or facility design is not required.

The strains in Baad Bugs Surface Cleaner ™ is considered naturally occurring, indigenous and non-pathogenic bacteria under FIFRA (Federal Insecticides, Fungicides and Rodenticides Act). Therefore, no EPA registration number or other permits or licenses are required.