



DRAIN CLEANING AND ODOR CONTROL PROTOCOL

FOR NISUS PRODUCTS



NISUS[®]

Better science for a better world.

DRAIN CLEANING AND ODOR CONTROL PROTOCOL USING NISUS PRODUCTS

(ALWAYS READ, UNDERSTAND AND FOLLOW LABEL COMPLETELY
BEFORE ANY APPLICATIONS.)

TOOLS

Adequate supply of preferred product(s):



Bac-Azap®



Nibor-D®



ProFoam® Platinum

PPE

Knee pads
Safety glasses
Gloves

INSPECTION TOOLS AS NEEDED

Professional flashlight
Inspection mirror

APPLICATION EQUIPMENT AS APPROPRIATE FOR JOB

Measuring cup
Floor mop/bucket
Hand pump sprayer or backpack sprayer that is at least one-gallon with foaming capabilities and extension wands (such as Actisol and B&G)
Quart-sized hand spray
Rotary drain brush

OTHER

Possess any required government credentials to perform work
Notebook or electronic tablet for notes and service record documentation

BAC-AZAP BACKGROUND

Introduction: Bac-Azap is a professional quality ready-to-use liquid formulation specifically designed for drain cleaning, cleaning floors and elimination of odors emitted by organic materials in commercial and residential accounts.

DESCRIPTION

Bac-Azap is a combination odor control and cleaning product first introduced into the pest management industry in the early nineties. Over the years this product has been enhanced into an extremely effective, specially designed 7-strain group of non-pathogenic Bacillus microbes. These microbes were scientifically selected for their superior profiles and high-performance advantages against the most forms of organic debris and odor causing materials.

This 7-strain microbe group produces billions of colony forming units that attack, consume and eliminate organic debris and control the odors that emanate from these materials. The unique formula in Bac-Azap also has an additional "odor capturing" function not found in other industry microbial products. This unique function binds with odor-causing molecules to eliminate odor.

Areas of application: Bac-Azap can be used directly to consume organic debris and eliminate odor sources. Apply into drains as a liquid or foam for cleaning out the organic debris, put into mop or rinse water to help clean areas of organic debris, apply into crawlspaces or attics as liquid spray or fog or apply to almost any surface to prevent organic odors.

Bac-Azap can also be applied directly to urine, feces, vomit, grease, fats, proteins, decomposing plant material



(composting), decomposing animal matter, skunk-sprayed surfaces, garbage bins/dumpsters and pet surfaces. It will also remove grease build-up in drain lines.

Note: Bac-Azap is not a pesticide and is only used for cleaning drains, consuming organic debris and eliminating odors.

ECO-BENIGN BY DESIGN

Bac-Azap's chemistry and active microbes are designed to naturally consume organic matter. This makes Bac-Azap one of the most environmentally responsible microbial products available.

Because Bac-Azap is not a pesticide, it can be applied by anyone – pest professionals, restaurant employees or homeowners – for drain cleaning, mopping or odor control.

DRAIN CLEANING

Bac-Azap can be poured directly into drains to consume and eliminate organic debris and clean the drain line. Initial start-up application on new drains may require an application of 4-6 ounces applied daily for 5-10 days depending on the amount of debris being held in the drain line. Heavy debris may also require a drain brush on the initial cleaning.

Commercial drains: Pour 4-6 ounces of Bac-Azap into each drain where grease and organic debris can accumulate. For best results, apply when drains will not be used for a few hours such as late in the day to allow for undisturbed residence time. If drain is not regularly used, apply 2- 3 gallons of water into drain prior to Bac-Azap application. After the initial start-up application, a maintenance treatment of 4-6 ounces once or twice a week can be applied to keep drains clear.

Residential drains: Pour 4-6 ounces of Bac-Azap directly into each drain where grease and other debris may accumulate. Bac-Azap can be applied into floor drains, sink drains, disposals, shower drains and tub drains. After initial treatment, a maintenance application of 4-6 ounces once or twice a week can be applied to keep drains free of debris.

Foaming drains: Bac-Azap can be applied as foam into floor and sink drains, under heavy kitchen equipment and other areas by using a foaming unit. Do not dilute. Even though Bac-Azap can foam by itself in the unit, we suggest adding an additional 1-2 ounces of ProFoam® Platinum to the solution to allow for more uniform and long-lasting foam. Using an application tip for drains, foam the Bac-Azap down into the drain. The foam allows the product to reach deep down into the drain systems, back behind equipment and other hard-to-reach areas to consume and eliminate organic debris and odor.

MOPPING

Bac-Azap can be used as a wash on tile, concrete or ceramic floors to clean, consume and eliminate decaying food and organic debris caught in the cracks, crevices and caulk lines of the floor. The product can be diluted with 1-2 parts water to 1 part Bac-Azap to maximize coverage.

Note: The use of harsh floor cleaners, disinfectants and bleach products will severely reduce the efficacy of Bac-Azap and all other microbial cleaning agents.

CARPETS

Removing excessive filth, dirt and grime from surfaces and drains before the application of bio-sanitation products is critical to the overall success of a program. It would require a significant time for beneficial



microbes to remove two inches of grease and gunk buildup, but only a few weeks to remove a thin layer of biofilm or buildup to reduce and maintain clean and clear surfaces. Cleaning heavy buildup in drains with a drain brush, removing trash and debris from under equipment and removing the initial layer of dirt and grime will give the beneficial microbes a jump start. Remember to take pictures to show the owner or manager and provide guidance for future cleaning efforts.

APPLICATION RATES

Bac-Azap can be used undiluted on carpet areas to eliminate organic stains or odors. Apply at the rate of 1 quart per 100 square feet (3 fluid ounces per square yard) of carpet area. Bac-Azap is formulated to be non-staining, but always test a surface in an inconspicuous spot for colorfastness. Bac-Azap helps eliminate stains on carpets caused by pet urine and feces. Before cleaning the area with any type of cleaning agent thoroughly soak the spot with Bac-Azap, place a wet cloth on the area and leave for 24 hours. The Bac-Azap will consume the organic matter and deodorize to ease any additional clean-up that may be necessary.

ODOR CONTROL

Bathrooms: After cleaning, spray walls and fixtures with an undiluted or 1 part water to 1 part Bac-Azap solution to prevent lingering odors. Pour 4-6 ounces of undiluted Bac-Azap into drains and urinals at the end of the day to help prevent odors.

Garbage cans, refuse containers and dumpsters:

Empty containers and clean with water as often as



possible to remove excessive debris. Spray Bac-Azap on a regular basis to floor and side surfaces to point of wetness to control odors and consume organic matter. Apply 1 quart of Bac-Azap per 100 square feet of surface area. In large dumpsters, Bac-Azap can be applied as foam in conjunction with Nibor-D as a control agent. This is an excellent location to use a foamer to coat all floor, walls and organic debris.

Bird, bat and rodent droppings, dead animal

odors: Bac-Azap can be sprayed on bird and bat fecal droppings and applied to rodent droppings and urine stains to help control odors. Clean areas of excess fecal material using the proper personal protective gear such as, but not limited to, HEPA respirator, gloves and eye protection. Apply Bac-Azap to the affected area to eliminate the odors and consume the remaining organic fecal matter. Bac-Azap can also be applied to areas where a rodent or other animal has died. Remove the animal and apply Bac-Azap to the area. Apply Bac-Azap to all areas listed above at the rate of 1 quart per 100 square feet of area.

Note: Bac-Azap does not disinfect the area. It only provides for the consumption of organic matter (such as feces) and odor control. Applying a disinfectant to the same areas at the same time will reduce the odor control and efficacy of Bac-Azap. A disinfectant may be applied to the same surface after Bac-Azap has consumed organic material and deodorized the surface.

Crawlspaces and basements: Bac-Azap can be applied to crawlspaces and basements as a liquid application or as a fog application.

Liquid: Spray Bac-Azap onto surfaces or dirt areas that may be producing or retaining odors from mold, mildew, sewage, wildlife and pets. Apply as a liquid at the rate of 1 quart per 100 square feet of surface area. Wear respirator and eye protection in poorly ventilated areas or when spraying overhead. (Note: Again, Bac-Azap is not a control agent; it only works to control and eliminate odors.)

Fogging: Bac-Azap can be fogged into confined areas, such as crawlspaces or attics using a fogging device. Dilute to 2 parts water to 1 part Bac-Azap and apply as a fog at a rate of 1 gallon per 1000 cubic feet of space.

Note: Do not fog into areas where people or pets are present and wait until fog has dissipated before allowing re-entry.

DRAIN & FLOOR USE WITH NIBOR-D

Bac-Azap in conjunction with Nibor-D: Bac-Azap is specially formulated to work with and not be affected by Nibor-D when used in combination for pest control applications. When it is combined with Nibor-D, you not only get fly control in the drains, but you also get the microorganisms in Bac-Azap that begin to consume the slime layers in the drain to clean and eliminate those organic materials.

Note: Bac-Azap and other microbial products used alone are only drain-cleaning agents, and no claims can be made for fly control.

Drains: Mix 3/4 gallon (3 quarts) water with 1 quart Bac-Azap to make 1 gallon of dilution. Add 8 oz. by weight (2.5 cups by volume) of Nibor-D to make a 5% solution. Add 2-3 oz. of ProFoam Platinum to this solution. Place solution into a foaming machine to foam drains.

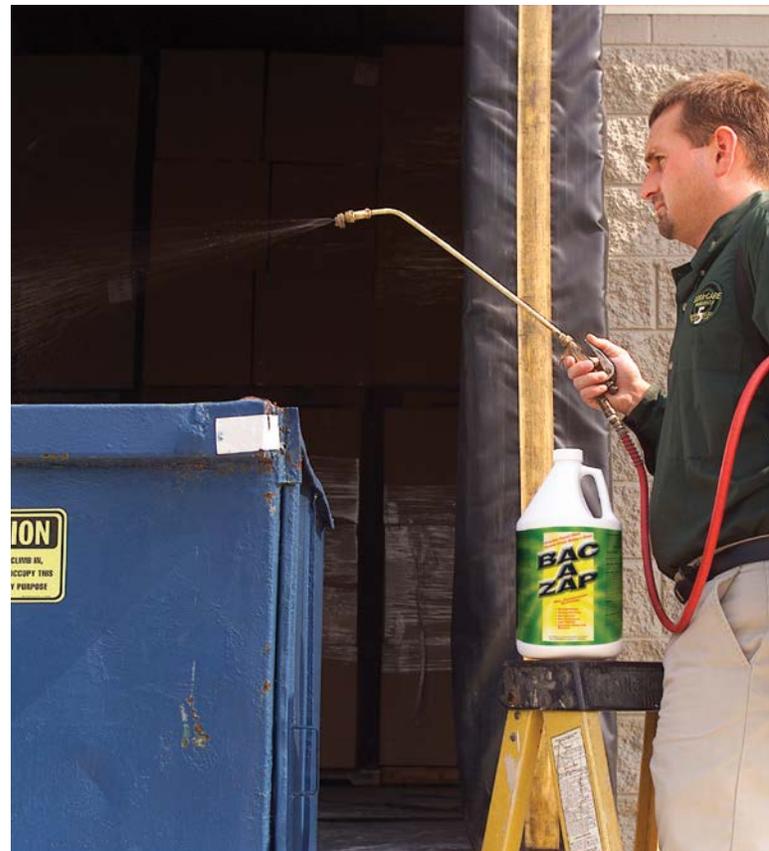
Mopping: The same solution using Nibor-D can be used as a liquid mopping solution in conjunction with Bac-Azap on kitchen floors for small fly control. This solution will diffuse into the cracks in the grout where food materials and organic matter will accumulate, creating a toxic bait of that material and stop fly development, while the Bac-Azap consumes the organic food matter. 1 quart of this mopping liquid solution can also be poured into each drain.



(See Nibor-D label and *Fly Control Scope of Service Technical Bulletin* for more information about foaming drains and mopping.)

CONSUMER MESSAGING

Bac-Azap is a professional odor control product and is also an excellent consumer leave-behind product for your customer to use on a day-to-day basis. Commercial restaurants can use the product as a mopping agent to consume and clean organic debris off floors, in grout cracks and in drains, and apply into garbage cans and refuse containers. Homeowners can use the product around the house to control organic odors in carpets, kitchen drains and disposals, bathrooms, pet areas, cat litter boxes and garbage cans, to name a few. The product can be sold separately or included in the price of service.





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