The information below comes from Stan Pullium, a long-term distributor of Shaklee Products from the U.S.

Is Basic-G hazardous?

- Regarding warning labels on the Basic-G, keep in mind that those warning labels apply to **what is in the bottle** -- that is, the very potent concentrate.

- Shaklee is required by EPA regulation to label the bottle according to what is in the bottle, not according to what it will be when diluted.

- Given that you only use less than 1/2 teaspoon of concentrate per 16 oz. spray bottle of water (technically 3/8 teaspoon, if you want to be precise) for full strength disinfectant that kills all the things listed in the literature (and more), you can imagine how potent the concentrate is.

- **At the recommended dilution ratio** that you use in a 16 oz. spray bottle, it is **completely safe**.

- In fact, Basic-G is the **only** thing we have ever used in our household **on our children** to clean cuts and scrapes. It is far more effective AND far **less hazardous** than the various anti-bacterial preparations sold for this purpose at the drug store. [Keep in mind that any applications of the product for human uses like this are a personal choice and do not constitute a company authorized use of the product. *Shaklee makes no claims in this regard* since they have not conducted any extensive clinical testing in this regard -- nor would they since this would require animal testing, which they do not do.]

Here is an official statement from Shaklee Science on this issue [emphasis mine]:

"As Basic-G is a special use highly concentrated product, the ingredient functionalities are much stronger than is the case with normal-strength cleaners. *Basic-G is toxic in a concentrated state and non-toxic when diluted according to label directions.*

"We are required to include statements on our label describing our product as a Highly Concentrated Germicide, as well as alerting the consumer to the Danger if this product in misused. The Precautionary Statements on the back of the label deal at length with the Hazards to Humans and Domestic Animals, as well as emphasizing the Corrosive nature of our product. We recommend consumers read the information on the label thoroughly before using this product. Other EPA-registered disinfectants will require similar warnings as are found on the label of Basic-G."

Now, why is Basic-G different?

You notice that Basic-G is not marketed as part of the Get Clean line.

- The reason for this is that all the products in the Get Clean line are completely non-toxic and biodegradable, and thus non-polluting.

- Basic-G is non-toxic in dilution but toxic in concentrate, as described above. Therefore, it doesn't just exactly fit into the parameters of the Get Clean line, and Shaklee has chosen to keep it separate.

- [Because Basic-G diluted according to directions is a full-strength disinfectant that kills all the organisms and virus listed in the literature, there is never any reason to mix it stronger than the recommended dilution. Making it stronger doesn't make it more effective -- it just wastes it and keeps you from getting the full economy from the concentrate.]

- Regarding "biodegradable," the term biodegradable refers in its most specific and technical use to the breakdown of substances by living entities in the environment -- such as, bacteria, enzymes, or fungi.

    - Basic-G is completely "degradable," but not completely "biodegradable" -- the second reason it is not part of the Get Clean line.
    - All of the cleaning components of Basic-G ARE biodegradable.
    - BUT the disinfectant component of Basic-G is designed to kill the organism that would otherwise "biodegrade" it -- so, consequently, in the technical sense, the disinfectant component is not biodegradable.

- However, the disinfectant component DOES degrade very quickly once the product has been applied to a surface or once it goes down the drain. "Degrade" means it breaks down into simpler non-toxic inert components. It does this through contact with oxygen or other elements but not by living organisms. So Basic-G is **completely "degradable"** but not completely "biodegradable."

That said, Basic-G is very different from other disinfectants on the market –

- even some being marketed as "green" -- because it is completely degradable, where as other disinfectants are not. Most of those being marketed as "green" may use biodegradable cleaning components, but the disinfectant component is not degradable (it will go down your drain and continue killing plants and animals in lakes and streams for long periods of time to come!).

- The second reason Basic-G is very different from other disinfectants is that it is simply far more effective against a much broader range of organisms.

- The third reason Basic-G is very different from other disinfectants is that it is far more economical. Buying Clorox Disinfection Bathroom Cleaner at our local Wal-Mart will cost me $13.74 per gallon. Basic-G used as directed will cost you 27 cents per gallon at Member Price.

Given that Basic-G is non-toxic in dilution, is completely degradable and non-polluting, is far more effective in the wide range of organism it kills, and yet costs only 27 cents per gallon at Member Price -- which would you rather use?

Stan

Basic G Testimonials

- ***"I ran a daycare for 7 1/2 years and I certainly was not going to use bleach.*** *I educated my daycare inspector on the effectiveness of Basic G by showing the ingredients listed on the bottle and providing other studies/testimonials .. they told me it was OK. So it's a matter of asking and educating the person who is doing the inspecting whether you can do the substitution. Today, if I were faced with this situation again, I would simply show the Safety Data Sheet which provides all the info they would need." Judy Myrlie*

- **"**Here in Sheridan Wyoming, the health department has approved Basic G in daycares. A day care mom who loves Basic G wrote a letter to the person in charge of such things along with the MSDS info and he said that Basic G was fine." Nancy Deines

- **Basic G for disinfecting toys???** "I have several child care centers that buy Basic G from me and use it to disinfect everything that they use. When I was at Hayward in 1993, I asked a researcher at the lab if there was anything that would harm the children and his reply was that Basic G is safer than anything else on the market. Also, it kills so many more pathogens. It's been almost ten years that they have been using the products and there have been no complaints." Elisabeth Taylor

- ***Basic-G Effectiveness Test by Mohall Hospital …*** **Submitted by: Steven O.Duerre, Medical Technologist Mohall Hospital Mohall, N.D.**
  - Subject: SHAKLEE BASIC G EFFECTIVENESS TEST … Solutions of Basic G and Biarnine were mixed to their respective manufacturers specifications and comparison tests were performed, further diluting the solutions to determine the points of ineffectiveness.
  - Biarnine is a widely accepted hospital germicide capable of sterilizing surgical instruments.

- In testing for staphlyococcus aureus (staph) and psuedomonas aeruginosa, swabs of live cultures were streaked on glass slides. Three drops of each of the two solutions and their given dilutions were placed on each slide. The suspensions were then mixed with an applicator stick and recultured on agar.
- Psuedomonas aeruginosa and staphylococcus aureus are two very pathogenic forms of bacteria -- the former being the most difficult to deal with clinically.
- **Test Results: (2 tests completed)**
  - **STAPHYLOCOCCUS AUREUS**
    - **Dilutions Basic G (1/2 oz/gal) Solution … Biarnine (1 oz/gal) Solution**

5 mls solution …..	**Basic-G - No growth**	**Biarnine - No growth**
5 mls solution +1 ml H20	**Basic-G - No growth**	**Biarnine - No growth**
5 mls solution +2 mls H20	**Basic-G - No growth**	**Biarnine - No growth**
5 mls solution +3 mls H20	**Basic-G - No growth**	**Biarnine - Few colonies**
5 mls solution + 5 mls H20	**Basic-G - Few colonies**	**Biarnine – Heavy growth**

  - **PSUEDOMONAS AERUGINOSA**
    - **Dilutions Basic G (1/2 oz/gal) Solution … Biarnine (1 oz/gal) Solution**

5 mls solution …	**Basic-G - No growth**	**Biarnine - No growth**
5 mls solution +1 ml H20	**Basic-G - No growth**	**Biarnine - No growth**
5 mls solution + 2 mls H20	**Basic-G - No Growth**	**Biarnine - Few colonies**
5 mls solution + 3 mls H20	**Basic-G - Few colonies**	**Biarnine - Heavy growth**
5 mls solution + 5 mls H20	**Basic-G - Heavy growth**	**Biarnine – Swarming**

In this test, Shaklee Basic G proved superior to Biarnine by at least one dilution on both types of bacteria

SHAKLEE BASIC-G - germicide cleaner is a one-step cleaner, disinfectant, and deodorizer that leaves no medicinal or chemical odors. One quart makes 64 gallons of germicide that has been proven effective against a wide range of bacteria, fungi, and viruses. It helps reduce the chance of cross-infection, is effective against HIV-1 (Aids Virus) as well as feline leukemia, and canine parvo virus. Great for cleaning and disinfecting bathrooms, kitchens, garbage pails, toys, animal pens, and for killing athlete's foot fungi on inanimate surfaces like shower stalls. Has a residual effectiveness up to 3 days after application. Not to be used on skin. 1 quart size.