

# HAND CLEANERS





## Waterless Hand Cleaner

### WT%

34.0 SoyGold 1000  
4.5 Varamide MA-1 (Witco)  
10.9 Tergitol NP-9 (Union Carbide Corporation)  
1.7 Oleic Acid  
.4 TEA 99%  
.5 Laneto 50 (Rita Corporation)  
48.0 Deionized Water

### Blending Procedure:

**Part A:** Combine SoyGold 1000, Varamide MA-1, Tergitol NP-9, Oleic Acid and heat to 70° C.

**Part B:** Combine TEA 99%, and deionized water and heat to 70° C. With agitation, add Part B to Part A, then cool to room temperature.

Appearance: White opaque ringy gel

Note: An abrasive such as pumice or silica can be added at 2 - 5%.

The information given in this formulary is, to the best of our knowledge, accurate. The formulations are intended to be helpful, but no warranty is expressed or implied regarding the accuracy of the data. It is the user's responsibility to determine the suitability of his use of the products described herein, and since the conditions of use are out of our control, we disclaim all liability with respect to the use of any materials supplied by Ag Environmental. Nothing contained herein shall be construed as permission or as a recommendation to practice any patented invention without a license from the patent owner nor as a recommendation to use any product or to practice any process in violation of any law or any government regulations.

AG ENVIRONMENTAL PRODUCTS L.L.C.

913-599-6911



## Pumpable Hand Soap

### WT%

66.5 Deionized Water  
1.0 Natrosol 250 HHR (Aqualon)  
15.0 Witconate AOS (Witco)  
4.0 Varamide MA-1 (Witco)  
4.0 Tergitol NP-9 (Union Carbide Corporation)  
3.0 Tergitol NP-6 (Union Carbide Corporation)  
6.5 SoyGold 1000

### Blending Procedure:

**Part A:** Combine water, Natrosol and mix until completely dissolved, then add the AOS, NP-9, NP-6, and MA-1 and mix until homogeneous.

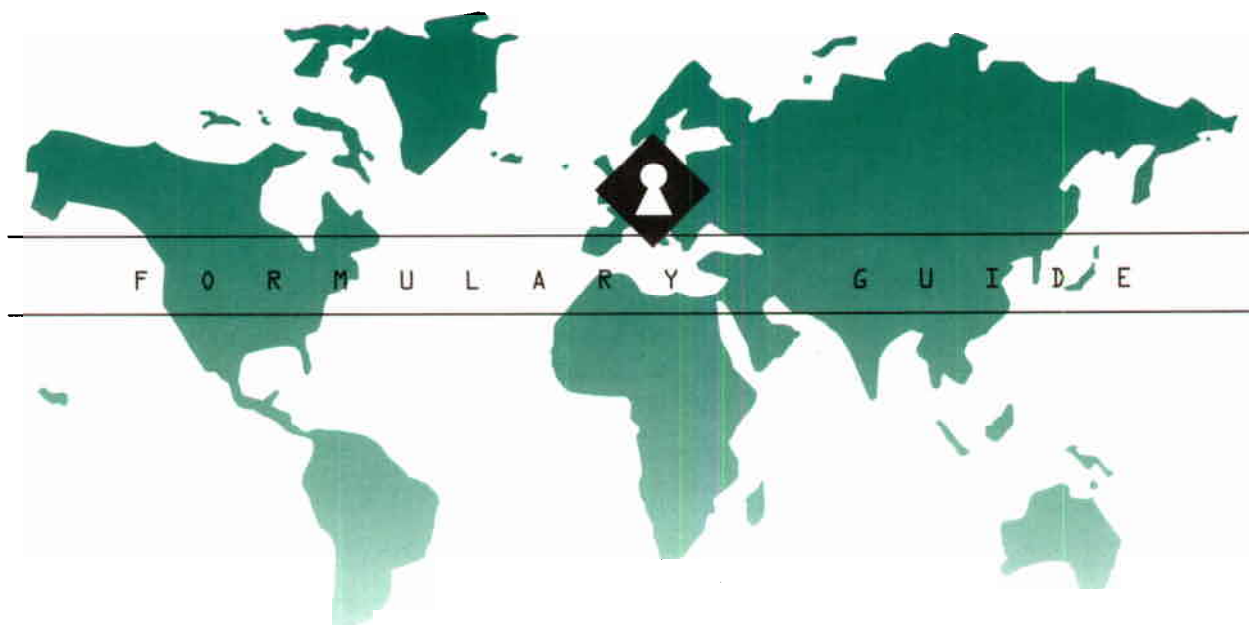
**Part B:** Combine water to the above mixture slowly.

Appearance: Light yellow opaque liquid

The information given in this formulary is, to the best of our knowledge, accurate. The formulations are intended to be helpful, but no warranty is expressed or implied regarding the accuracy of the data. It is the user's responsibility to determine the suitability of his use of the products described herein, and since the conditions of use are out of our control, we disclaim all liability with respect to the use of any materials supplied by Ag Environmental. Nothing contained herein shall be construed as permission or as a recommendation to practice any patented invention without a license from the patent owner nor as a recommendation to use any product or to practice any process in violation of any law or any government regulations.

AG ENVIRONMENTAL PRODUCTS L.L.C.

913-599-6911



## d-Limonene Hand Cleaner

### WT%

16.5 SoyGold 1000  
4.9 Varamide MA-1 (Witco)  
3.7 Tergitol NP-9 (Union Carbide Corporation)  
4.9 Tall Oil Fatty Acid  
2.5 THFA (QO Chemical)  
2.4 d-Limonene  
3.2 TEA 99%  
.5 Laneto 50 (Rita Corporation)  
61.4 Deionized Water

### Blending Procedure:

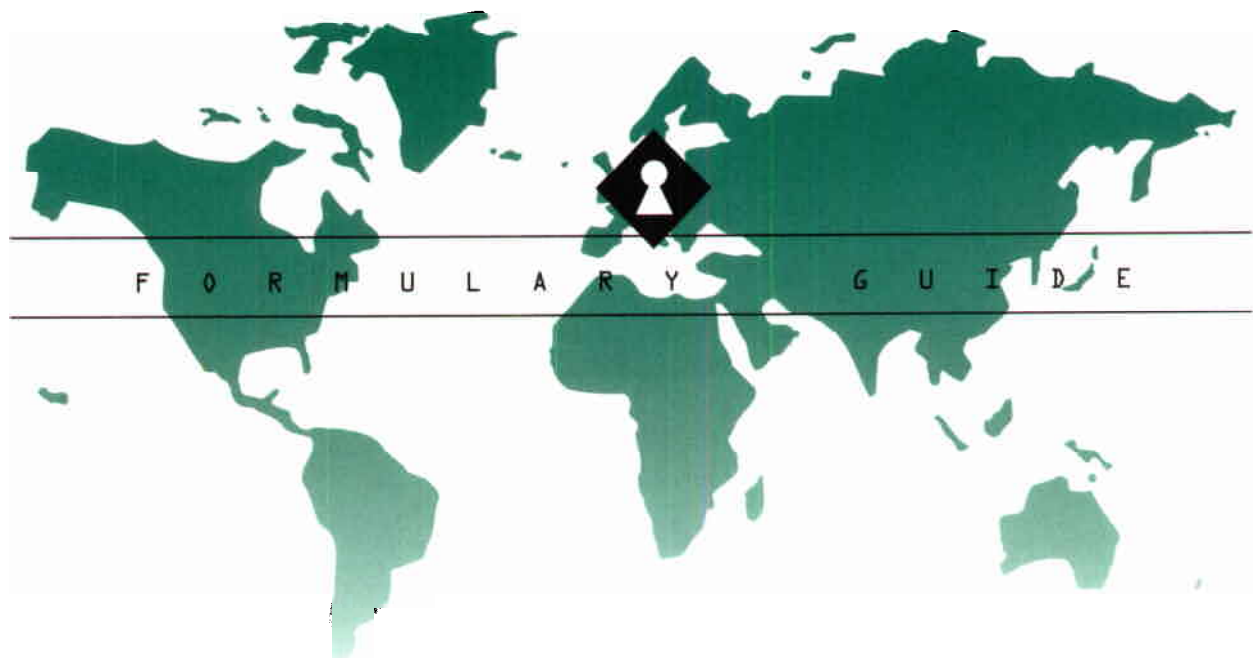
**Part A:** Combine SoyGold 1000, Varamide MA-1, Tergitol NP-9, Tall Oil, THFA and Laneto 50. Heat to 70° C.

**Part B:** Combine TEA 99%, d-Limonene and deionized water and heat to 70° C. With agitation, add Part B to Part A, then cool to room temperature.

Appearance: White opaque ringing gel

Note: An abrasive such as pumice or silica can be added at 2 - 5%.

The information given in this formulary is, to the best of our knowledge, accurate. The formulations are intended to be helpful, but no warranty is expressed or implied regarding the accuracy of the data. It is the user's responsibility to determine the suitability of his use of the products described herein, and since the conditions of use are out of our control, we disclaim all liability with respect to the use of any materials supplied by Ag Environmental. Nothing contained herein shall be construed as permission or as a recommendation to practice any patented invention without a license from the patent owner nor as a recommendation to use any product or to practice any process in violation of any law or any government regulations.



## Antibacterial Hand Soap

WT %

60.2 Water

20.0 SoyGold 1000

6.0 Acintol FA-1 (Tall Oil Fatty Acid)

6.0 Igepal CO-630 (Rhodia)

3.0 Triethanolamine (TEA)

3.0 Varamide MA-1 (Witco)

1.0 Sorbitol 70%

0.5 Laneto 50 (RITA)

0.3 Triclosan

### Blending Procedure:

1. Combine Water, Triclosan, and Sorbitol and heat to 140° F.
2. In a separate mixing vessel, combine SoyGold 1000, Acintol FA-1, Varamide MA-1, Igepal CO-630, TEA, and Laneto 50. Heat to 140° F.
3. Slowly begin to add the SoyGold phase to the water phase.
4. Mix until clear and fill.

The information given in this formulary is to the best of our knowledge accurate. The formulations are intended to be helpful, but no warranty is expressed or implied regarding the accuracy of the data. It is the users responsibility to determine the suitability of his use of the products described herein, and since the conditions of use are out of our control, we disclaim all liability with respect to the use of any materials supplied by AEP. Nothing contained herein shall be construed as permission or as a recommendation to practice any patented invention without a license from the patent owner nor as a recommendation to use any product or to practice any process in violation of any law or any government regulations.