

# VIDET IPB-4

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## TECH DATA SHEET

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- ▲ Synthetic Detergent Polymer Chelating System Used To Produce A Daily Shower Cleaner
- ▲ Unique Properties Make It An Excellent Choice in Various Cleaning Formulations To Provide Barrier Protection
- ▲ Minimizes Hazing Upon Drying.  
Dries To A ***Clear Invisible Protective Barrier***;  
Even With Traditional Disinfectant Quaternaries
- ▲ Reduces Hard Water Spotting Even In The Toughest Water Conditions
- ▲ Reduces Soap Scum & Hard Water Build Up
- ▲ Cleans Soap Scum From Soiled Showers
- ▲ Solvent Free: Formulate Finished Cleaners Without IPA
- ▲ Zero VOC
- ▲ Excellent Calcium, Magnesium, & Iron Chelation
- ▲ Leaves Surfaces Bright & Shining
- ▲ Enhances Wetting & Sheeting
- ▲ Provides Anti-Fog Properties To Glass & Mirrors
- ▲ Neutral pH: Safe On Most Surfaces
- ▲ Phosphate Free
- ▲ Environmentally Friendly
- ▲ Virtually Odorless. Requires No Fragrance



## FORMULARY

### DAILY SHOWER CLEANER

INGREDIENT	WEIGHT %
Water	96 – 98.0
Videt IPB-4	2 – 4.0

- ▲ pH: 7.5 – 8.0
- ▲ For optimal performance, start with a clean shower. However, this formulation provides excellent soap scum removal without scrubbing. Regular use will clean most showers within 2 weeks.
- ▲ If a fragrance is desired, be sure to only use 100% oil fragrances. Never use a fragrance that has been preblended with a surfactant as this will affect film clarity of the finished cleaner. Add the fragrance oil directly to the Videt IPB-4 before mixing with water. Blend until homogeneous. Up to 0.25% fragrance on weight of Videt IPB-4 can be added. Since Videt IPB-4 has such a low odor, this level of fragrance produces a finished product with excellent fragrance carry through. Always add the fragranced Videt IPB-4 to the water with good agitation. Do not add water to fragranced IPB-4.

### OUTDOOR WINDOW CLEANER END OF HOSE APPLICATION

INGREDIENT	WEIGHT %
Water	90 – 92.0
Videt IPB-4	8 – 10.0

- ▲ dilute 60 – 80:1 through end of hose dilution apparatus.
- ▲ formulation provides excellent cleaning and streak free drying even with hard water

#### NOTE:

Videt IPB-4 is alkaline and acid stable.  
Videt IPB-4 is **not** compatible with traditional disinfectant/biocidal quaternaries or cationics in general.

## ADDITIONAL APPLICATIONS

- ▲ Since Videt IPB-4 formulations minimize hazing, dry to a clear, invisible protective barrier, and provide rapid wetting and sheeting, other potential retail applications include...
  - Bathroom / Kitchen Sinks & Faucets (Preventative Maintenance Product)
  - Bathtub (Preventative Maintenance Product)
  - Outdoor Window Cleaners (See formulation above)
  - Glass Cleaners
- ▲ Although Videt IPB-4 was initially developed for retail applications, it's unique properties make it an exciting possibility in commercial applications, including:
  - Bathroom Preventative Maintenance Products for Hotels/Motels, Hospitals, Schools, Businesses and Other Commercial Buildings
  - Preventative Maintenance Products for Production and Storage Tanks. An example would be the food and beverage industry.
  - Rinse Water Additive To Eliminate Hard Water Spotting

## ADDITIONAL INFORMATION

- ▲ A shortcoming of certain current daily shower cleaners is the haze left on shower surfaces, especially on glass and mirrors, once the cleaner has dried. Videt IPB-4 minimizes this concern, even in tough water conditions, and leaves an invisible protective barrier on the surface. Surfaces are left bright and shiny. When comparing Videt IPB-4 to competitive systems, be sure to evaluate surface clarity in various water sources.
- ▲ Some daily shower cleaners contain disinfectant/biocidal quaternaries which can affect film clarity. Videt IPB-4 can be formulated with traditional disinfectant quaternaries while maintaining outstanding film clarity. Formulated products need to be registered with the EPA if disinfectant claims are made.
- ▲ Videt IPB-4 formulations are solvent free, contain zero VOC, and have a neutral pH. This makes Videt IPB-4 based formulations safe on most bathroom surfaces as well as most any surface. However, Videt IPB-4 should not be used on marble.
- ▲ Unlike many existing formulations, Videt IPB-4 provides an invisible barrier with reduced slip properties.

## PERFORMANCE STUDIES

- ▲ The following performance studies were conducted on several leading daily shower products as well as the Videt IPB-4 formulation. A number of different water sources were evaluated to determine the performance in tough water conditions. **This test is also an excellent demo for marketing purposes.**

### Clarity Test

- ▲ Wet mirror or glass tile (12" x 12") with tap water.
- ▲ Fully mist surface with formulated cleaner.
- ▲ Allow to completely dry.

#### RESULTS

- ▲ The Videt IPB-4 based formulation left the surface as clear as the original surface before testing.

### Simulated Shower Cleaning Test

- ▲ Wet clean mirror or glass tile (12x12) with tap water
- ▲ Fully mist surface with formulated cleaner and allow to completely dry
- ▲ Prepare 0.1% sodium oleate solution and spray on surface
- ▲ Prepare 500 ppm solution of hard water as calcium carbonate (0.055% or 550 ppm calcium chloride) and immediately spray on surface. This forms a soap scum film.

- ▲ Then fully mist surface with formulated cleaner and allow to dry
- ▲ Observe results

#### RESULTS

- ▲ The IPB-4 formulation left no haze on the mirror or glass. In fact, the IPB-4 based formulation left the surface as clear and clean as the original tile before testing.

### Soap Scum Cleaning Test

- ▲ Thoroughly wet clean mirror or glass tile (12" x 12") with soap scum dispersion prepared as follows:
  1. Prepare 0.5% sodium oleate solution
  2. Prepare 0.11% calcium chloride solution
  3. Mix equal parts of 1 and 2 to form soap scum dispersion
- ▲ Dry overnight at room temperature or 30 minutes in an oven at 120°C.
- ▲ Spray once with formulated shower cleaner, holding spray tip approx. 5 inches from tile.
- ▲ Allow to dry overnight
- ▲ Rinse with cold tap water
- ▲ Observe results.

#### RESULTS

- ▲ Approximately 95 – 99% of the soap scum was removed from the tile in the area that was sprayed, after only one treatment.

## SPECIFICATIONS & PROPERTIES

Appearance	Clear Liquid
pH (conc)	8.0 +/- 0.5
Specific Gravity @ 25°C	1.07 +/- 0.02 (8.9 lbs./gallon)
Boiling Point	Approx. 100°C

## PACKAGE & HANDLING

- ▲ **Videt IPB-4** is available in bulk, **55 gallon plastic drums** (net wt. 490 lbs) and **5 gallon pails** (net wt. 40 lbs)
- ▲ DOT/TDG classification: **Non-Regulated.**
- ▲ Must be stored above 40°F at all times.



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