

Your TRUE TEST results indicate that you have a contact allergy to 2-bromo-2-nitropropane-1,3-diol (Bronopol). This contact allergy may cause your skin to react when it is exposed to this substance, although it may take several days for the symptoms to appear. Typical symptoms include redness, swelling, itching and fluid-filled blisters.

Bronopol is an antimicrobial agent commonly used as a preservative in many types of cosmetics, personal care products and topical medications. It is used as an anti-infective, antimicrobial, fungicide, germicide, bactericide, slimicide and wood preservative. Bronopol is a formaldehyde-releasing preservative (FRP), which is used in place of formaldehyde for people who are sensitive to it.

WHERE IS BRONOPOL™ FOUND?

At work, you may find Bronopol in or around:

- Process and metal-working fluids
- Fuel/oil storage tanks
- Agriculture chemicals
- Pesticides
- Cooling lubricants
- Water-based paints, inks, adhesives and glues
- Paper mills and products
- Orthopedic casts
- Biocides
- Cleaning agents
- Root canal disinfectants
- Maintenance, sampling, or other procedures related to manufacturing

If you suspect you are being exposed to this allergen at work, contact your employer regarding Material Safety Data Sheets (MSDS).

At home, you may find Bronopol in:

- Finger paints
- Washing detergents
- Blushers
- Creams
- Foundations
- Hair dressings
- Mascara
- Topical antibiotic/antifungal creams /ointments
- Kitty litter
- Toiletries and cleansers
- Cleansing lotions
- Eyebrow pencils
- Hair conditioners
- Humidifiers
- Mouthwash
- Shampoos

HOW CAN YOU AVOID BRONOPOL™?

- Check all skin antibacterial agents for Bronopol ingredients.
- Inform your healthcare providers that you are allergic to Bronopol and ask that they use products that are free from this allergen.
- Do not use products that list Bronopol (or synonyms) especially antibiotic preparations.
- Avoid contact with oxidizing materials, bases (can generate formaldehyde), amines, or strong acids.

WHAT SHOULD YOU LOOK FOR AND AVOID?

Avoid products with the following names in the list of ingredients:

- CAS No. 52-51-7
- Bronopol
- 2-Bromo-2-nitropropane-1,3-diol
- 2-Bromo-2-nitro-1,3-propanediol

Note: This substance may release formaldehyde and cross-reacts with other FRPs. Therefore, if you are allergic to formaldehyde, your doctor may advise you to avoid contact with Bronopol, even if you did not have a positive patch test to Bronopol itself.

When purchasing products that may come in contact with your skin, check the list of ingredients for any of the names above. If in doubt, contact your pharmacist or physician.

WHAT ARE SOME PRODUCTS THAT MAY CONTAIN BRONOPOL™*?

- BNPD
- BIOBAN™ Bronopol PC Preservative
- BIOBAN BP-Plus Preservative
- BIOBAN BP-M Antimicrobial
- ROCIMA™ 614

*These lists are brief and provide just a few examples. Read product labels carefully and talk to your doctor if you have any questions. Product formulations may change from time to time without notice. Talk to your doctor for specific instructions. For additional information about products that might contain **2-bromo-2-nitropropane-1,3-diol (Bronopol)** or a related substance, go to the Household Products Database online (householdproducts.nlm.nih.gov) at the United States National Library of Medicine.