



the art and science of smart patch testing™

## **NA03: 2-bromo-2-nitropropane-1,3-diol (Bronopol)**

### **CAS# : 52-51-7**

### **Patient Information**

Your patch test result indicates that you have a contact allergy to 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.

#### **Where is Bronopol found?**

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, an antimicrobial, fungicide, germicide, bactericide, slimicide, and a wood preservative. It is reportedly very effective against gram-positive and gram-negative bacteria, particularly *Pseudomonas aeruginosa* as well as against fungi and yeasts. This substance may release formaldehyde and cross-reacts with other formaldehyde-releasing substances.

#### **How can you avoid contact with Bronopol?**

Avoid products that list any of the following names in the ingredients:

- |                                   |   |
|-----------------------------------|---|
| ■ 2-Bromo-2-nitropropane-1,3-diol | ■ HSDB 7195                               |
| ■ 2-Nitro-2-bromo-1,3-propanediol | ■ Lexgard bronopol                        |
| ■ Bronidiol                       | ■ NSC 141021                              |
| ■ Bronocot                        | ■ Onyxide 500                             |
| ■ Bronopol                        | ■ beta-Bromo-beta-nitrotrimethyleneglycol |
| ■ Bronosol                        | ■ Germall 11                              |
| ■ Bronotak                        |   |

#### **What are some products that may contain Bronopol?**

##### **Adhesives and Glues**

##### **Agricultural Chemicals**

##### **Cleaning Agents**

##### **Construction Materials**

##### **Cooling Lubricants**

## Filling Agents

## Flooring Agents

## Indicators and Reagents

## Kitty Litter

## Metal Working Fluids

### Paints:

- Finger paints

## Papermills

## Pesticides

## Polishes

## Printing Inks

### Preservatives:

- Biocide

### Toiletries and Cosmetics:

- Blushers
- Cleansing lotions
- Creams
- Eyebrow pencils
- Formaldehyde releaser
- Foundations
- Hair conditioners
- Hair dressings
- Humidifiers
- Mascara
- Moisturizers
- Shampoos
- Deodorants

## Washing Detergents

\*For additional information about products that might contain **Bronopol**, go to the Household Product Database online (<http://householdproducts.nlm.nih.gov>) at the United States National Library of Medicine. These lists are brief and provide just a few examples. They are not comprehensive. Product formulations also change frequently. Read product labels carefully and talk to your doctor if you have any questions. These are general guidelines. Talk to your doctor for more specific instructions.