



the art and science of smart patch testing™

## PF132 d-limonene CAS#: 138-86-3

### Patient Information

Your patch test result indicates that you have a contact allergy to d-limonene. 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 d-limonene found?

D-limonene is oil extracted from citrus rind and therefore found most often in items that contain a citric aroma. The substance is used in a wide variety of products including cleaning fluids, hand lotions, and pet care shampoos.

#### How can you avoid contact with d-limonene?

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

- (+)-(4R)-Limonene
- (+)-4-Isopropenyl-1-methylcyclohexene
- (+)-Dipentene
- (+)-(4R)-Limonene
- (+)-4-Isopropenyl-1-methylcyclohexene
- (+)-Dipentene
- (+)-Limonene
- (+)-R-Limonene
- (+)-alpha-Limonene
- (+)-p-Mentha-1,8-diene
- (4R)-(+)-Limonene
- (4R)-Limonene
- (R)-(+)-Limonene
- (R)-(+)-p-Mentha-1,8-diene
- (R)-1-Methyl-4-(1-methylethenyl)cyclohexene
- (R)-4-Isopropenyl-1-methyl-1-cyclohexene
- (R)-Limonene
- (R)-p-Mentha-1,8-diene
- 1-Methyl-4-(1-methylethenyl)cyclohexene, (R)-
- AI3-15191
- Biogenic SE 374
- CCRIS 671
- Carvene
- Citrene
- D-(+)-Limonene
- EC 7
- EINECS 227-813-5
- FEMA No. 2633
- Glidesafe
- Glidsafe
- HSDB 4186
- Kautschiin
- Limonene, (+)-
- NCI-C55572
- Refchole
- d-(+)-Limonene
- d-Limonene

- d-Limonene (natural)
- d-Limoneno
- d-Limoneno [Spanish]
- d-p-Mentha-1,8-diene
- p-Mentha-1,8-diene, (R)-(+)-

## **What are some products that may contain d-limonene?**

### **Cloth:**

- GoJo Fast Wipes

### **Creams/Lotions/Moisturizers:**

- Fast Orange Smooth Lotion Hand Cleaner
- GOJO Natural Orange Pumice Hand Cleaner
- Permatex Fast Orange Hand Cleaner Cream
- Permatex Fast Orange Smooth Lotion Hand Cleaner

### **Hair Care:**

- L'Oreal Natural Match Hair Color

### **Household Products:**

- 3-IN-ONE Professional Cleaner Degreaser
- Champion Spot It Gone
- Champion Sprayon Foam it Gone
- Champion Sprayon Natural Citrus Foaming Cleaner
- Champion X It Out Vandal Mark Remover
- Citristrip Paint & Varnish Remover
- Custom Epoxy Haze Remover & Degreaser
- Elmers Sticky Out Cleaner
- Enforcer Citrus Cleaner & Degreaser
- Howard Citrus Shield Premium Natural Paste Wax
- Pledge Orange Oil Furniture Polish
- Medo Super Odor Eliminator
- Medo Ultra Citrus
- Ortho HomeDefense Indoor Insect Killer RTU
- Pledge with Orange Oil
- Rust Oleum Pure Strength Cleaner/Degreaser
- SprayPAK Vandal Mark Remover
- Sprayway Heavy-Duty Multi-Surface Cleaner Wipes No. 983
- Sprayway Orange Citrus Crazy Clean No. 985
- Sprayway Water-Based Multi-Purpose Adhesive Remover No. 894
- StoneTech Oil Stain Remover
- Whistle Citrus Cleaner/Degreaser
- Woodfinishers Pride Paint Remover
- Zep Citrus Cleaner and Degreaser
- Zep Stainless Steel Cleaner

### **Pet Care:**

- Adams D Limonene Flea & Tick Shampoo for Dogs, Cats, Puppies & Kittens
- Bio Spot Flea & Tick Control for Dogs
- Repel II Dog & Cat Repellent Granules
- REPEL II Dogs and Cats Repellent

\*For additional information about products that might contain **d-limonene**, 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.