

## PATIENT INFORMATION SHEET

### Hydroperoxides of Limonene

(H-032A, H-032B)

Your patch testing results indicate that you have a contact allergy to **Hydroperoxides of Limonene**. It is important that you familiarize yourself with this chemical and take steps to avoid coming in contact with it.

#### What is **Hydroperoxides of Limonene** and where is it found?

Limonene is an oil made from citrus rind. It can be found in paints, as an orange fragrance to products and in cleaning products. It is also used as a wipe cleaner, in a dip bath, or in spray systems. Limonene autoxidize on air exposure at room temperature forming hydroperoxides. Compared to pure unoxidized Limonene the hydroperoxides of the oxidized Limonene have shown to be far more allergenic. Products containing Limonene will form hydroperoxides, it is only a matter of time. Further research may identify additional product or industrial usages of this chemical.

#### What else is **Hydroperoxides of Limonene** called?

This chemical can be identified by different names, including:

*Hydroperoxides of Limonene, Carvene, (+)-4-Isopropenyl-1-Methylcyclohexene, Optical Isomer of Dipentene, (+)-R-Limonene, (R)-1-Methyl-4-(1-Methylethyenyl) Cyclohexene, D-(+)-Limonene*

This may not be a complete list as manufacturers introduce and delete chemicals from their product lines.

## THINGS YOU CAN DO TO HELP MANAGE YOUR CONTACT ALLERGY

**Be vigilant... read the product label.** Always take the time to read the ingredient listing on product packages. This should be your first step each time you purchase a product as manufacturers sometimes change product ingredients. If you have any concerns ask your pharmacist or your doctor.

**Test the product first.** If you have purchased a new product you should test it on a small skin area to see if you get a reaction before using the product on larger skin areas.

**Advise people you obtain services from of your contact allergy.** This should include people like your pharmacist, doctor, hairdresser, florist, veterinarian, etc.

**Inform your employer if the source of your contact allergy is work related.** You should identify the specific source of the chemical and take the necessary steps to avoid further exposure. Protective wear may be adequate or you may need to make a change in your work activities. Both you and your employer benefit when the cause of your occupational dermatitis is eliminated.

**"Google" it.** The internet is an excellent source of ingredient information that can be searched by product, by company and by specific chemical. Some helpful independent internet links include: [www.nlm.nih.gov/pubs/factsheets/factsheets.html](http://www.nlm.nih.gov/pubs/factsheets/factsheets.html) (U.S. Dept. of Health and Human Services; alphabetic list) [www.nlm.nih.gov/pubs/factsheets/factsubj.html](http://www.nlm.nih.gov/pubs/factsheets/factsubj.html) (U.S. Dept. of Health and Human Services;

subject list) **[www.cosmeticsinfo.org](http://www.cosmeticsinfo.org)** (Cosmetic Industry Category Ingredient Database) **[www.whatsinsidescjohnson.com](http://www.whatsinsidescjohnson.com)** (information on all S.C. Johnson product ingredients)

If you have any future contact dermatitis concerns or questions, please call the doctor's office.

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