

## **Patient Information**

### **Black Rubber Mix**

**Your TRUE TEST® indicates that you have a contact allergy to black rubber mix chemicals.**

Black rubber mix chemicals in contact with your skin may result in dermatitis. Brief or occasional contact may not pose a problem.

Black rubber mix contains the following three allergens:

- N-isopropyl-N'-phenyl paraphenylenediamine
- N-cyclohexyl-N'-phenyl paraphenylenediamine
- N, N'-diphenyl paraphenylenediamine

These allergens are rubber additives known as antioxidants, and since they discolor the rubber, these additives are used primarily to produce black rubber.

#### **Where are black rubber mix allergens found?**

The black rubber mix ingredients are most often used in making industrial and heavy-use rubber products such as tires, hoses, cables and belts.

The black rubber mix ingredients are used less often in products for home use, but they may be found in certain types of rubber articles such as rubber boots, rubber handles, watchbands, underwear elastic, stockings, dental tips and sports equipment such as scuba and snorkel masks, squash balls and windsurfing boards.

The black rubber mix ingredients are not usually used in the manufacture of rubber gloves for domestic or hospital use.

Hair dyes and textile dyes may cross react with the black rubber mix chemicals.



### **How to avoid black rubber mix**

To avoid black rubber mix ingredients, black and dark gray rubber should be avoided. If an object looks like it is made of rubber and it is black, it probably will be a problem.

Avoid black rubber sports equipment.

Carry vinyl gloves, in your car, in case of a tire change. Use caution when handling other parts that may contain rubber.

Workers with this allergy may experience a problem handling rubber hoses, seals and cables. If you suspect that you are being exposed to this allergen at work, consult your employer regarding Material Safety Data Sheets.

Inform your healthcare providers that you are allergic to black rubber mix ingredients.

## **What to look for**

### **Black rubber mix content:**

- N-isopropyl-N'-phenyl paraphenylenediamine
- N-cyclohexyl-N'-phenyl paraphenylenediamine
- N, N'-diphenyl paraphenylenediamine.

### **Common trade names**

#### *N-Phenyl-N'-cyclohexyl-p-phenylenediamine (CPPD)*

- Phenylcyclohexyl PPD
- Flexzone™ GH

#### *N-Isopropyl-N'-phenyl-p-phenylenediamine (IPPD)*

- Akrochem®
- Antioxidant
- ANTO "H"™
- IP
- Isopropyl 0 PPD
- Flexzone™ 3-C
- IPPD
- Permanex™
- PD1
- Santoflex®

#### *N,N'-Diphenyl-p-phenylenediamine (DPPD)*

- Diphenyl® PPD



***Related substances to which you may react***

*Hair dye chemicals*

- Paraphenylenediamine (p-phenylenediamine)
- Para-aminodiphenylamine (p-aminodiphenylamin

*The lists may not be complete.*

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

*This information does not substitute the information given by your health care providers and can only be seen as a supplement.*