



Patient Information Leaflet

N-isopropyl-N-phenyl-paraphenylenediamine (IPPD)

You are allergic to N-isopropyl-N-phenyl-paraphenylenediamine. This means that you should avoid contact with this substance in future. This chemical is used in the manufacture of black rubber products.

N-isopropyl-N-phenyl-paraphenylenediamine is used as an antioxidant in rubber production to stop drying and cracking of the finished product. Since it stains the rubber it is only used to make black and grey objects.

Gloves: patients should be able to wear household rubber gloves in most cases (not industrial black or grey gloves). In the industrial setting e.g. handling tyres you may wear vinyl gloves e.g. Synsation from Ansell Medical (0208-4811804) and TruTouch from Becton Dickinson (01865-748844) or non-black rubber gloves. Heavy-duty alternatives are Ansell Dermaprene (neoprene)- an MBT, thiuram, carba and rubber-free variety of glove (contains thioureas), Becton and Dickinson Neolon (neoprene) which is MBT, thiuram, thiourea and rubber-free (contains carbamates) or Elastyren (Styrene butadiene polymer) from Hermal, Germany (00-40-72704-266) which is MBT, thiuram, thiourea and rubber-free (contains carbamates).

Black or grey rubber in shoes may be safe. Rubber elastic in underwear may be deceptive as if it is woven with cloth, it does not look grey or black. Non-elasticated (e.g. drawstring) or Lycra underwear may be worn if dermatitis has occurred at an area of elastic contact.

N-isopropyl-N-phenyl-paraphenylenediamine cross-reacts with hair dyes (p-phenylenediamine and p-aminodiphenylamine). Some patients may be unable to use permanent hair dyes (this may be indicated by a positive reaction to p-phenylenediamine in the standard patch test series, but p-aminodiphenylamine is not tested routinely).

Sources of N-isopropyl-N-phenyl-p-phenylenediamine:

Tyres, brake linings, steering wheels

Flanges

Black rubber boots and gloves

Cushions

Walking stick handles

Face masks and goggles e.g. diving

Aircraft parts

Eyelash curlers

Watch straps

Spectacle chains

Grips on racquets, motorbikes, lawn mowers

Elasticated clothing like support stockings, underwear

Tubes, pipes, hoses and gaskets

Post sorting devices

Shoe soles

Earphones

Squash balls

Wigs

Milking machinery

Wet suits

Wire insulation