RUBBER ACCELERATORS

Name
 Date

What are these?

Rubber accelerators and antioxidants are chemicals used in the manufacture of both natural latex and synthetic rubbers. Many of these agents can cause allergic dermatitis. This type allergy is <u>different from Latex Allergy</u>, in which potentially dangerous <u>immediate</u> swelling occurs on contact with natural rubber made from latex tree sap.

Where might they be found?

rubber gloves, nitrile gloves rubber sandals, slippers, soles rubber shoes, insoles, boots rubber hip waders, gators elastic in clothing, socks, girdle support stockings non-slip waistband, elastics brassiere cups rubber undergarments, panties slimming suits, sauna suits swimwear, swim cap, goggles wetsuit, diving gear condoms, diaphragms rubber vibrator, rubber dropper rubber pillow, mattress, sheet cosmetic applicator, lash curler ear plugs, headphones hairbrush handle, hairnet toothbrush rubber handle dentures, dental dams baby bottle nipples, pacifiers balloons, rubber balls, toys adhesive tape, bunion pad hot water bottle, urinal medical devices, stethoscopes intravenous port, stoppers tourniquet, syringe plunger blood pressure cuff surgical mask, CPAP strapping dialysis equipment, catheter orthopedic braces, supports rubber prosthesis, splint, mask rubber bands, i-Pod band pen handle, pencil grip, eraser mouse pad, wrist support glue, envelopes, stamps rubber bank note counter

kitchen utensil rubber handles rubber mats, carpet backing or underlay pad racquet handle, club handle hockey pads, soccer shin pad, foam shoulder pad rubber in upholstered furniture rubber cement for shoe uppers and linings rubber hose, rubber tubing, seals, cables steering wheel, bicycle handle auto hoses, gaskets, fan belts shock absorbers, springs, tires, inner tubes tool handles, utensil handles duct tape, electrical cords weather stripping safety aprons, goggles, respirators, gas masks neoprene and isoprene rubber conveyor belts fuel tank lining synthetic resins in textile/dye industry microscope eyepiece

How to avoid them:

Most rubber products contain rubber accelerators. Avoid direct contact with all rubber. Use protective fabric, leather, or plastic to handle dry rubber. Wear heavy duty vinyl gloves to protect against workplace contact with these chemicals.

You were patch tested with these accelerators:

- Thiurams (tetramethylthiuram monosulfide, tetramethylthiuram disulfide, tetraethylthiuram disulfide, dipentamethylene thiuram disulfide),
- Carbamates (zinc diethyldithiocarbamate, diphenylguanidine, zinc dibutyldithiocarbamate),
- Mixed Dialkyl Thioureas (diethylthiourea and dibutylthiourea), and
- Benzothiazoles (morpholinyl mercaptobenzothiazole, mercaptobenzothiazole, N-cyclohexyl-2-benzothiazyl sulfenamide, dibenzothiazyl disulfide). (continued)

Non-rubber uses:

These chemicals have other uses that may be important in your exposure. Check the Material Safety Data Sheet (MSDS) at work for them.

Thiuram chemicals are used in germicides, pesticides, seed disinfectant, fungicides, insect repellants, animal repellants, wood and paint preservatives, plastics, putty, and as a bacteriostat in soaps, greases, shampoos, and oils. The medicine disulfuram (Antabuse) is a thiuram.

Carba chemicals are found in animal repellants, pesticides, herbicides, fungicides, slime retardants, disinfectants, and some shampoos, soaps, cements, sealants, and adhesives.

Thioureas are present in diazo copy paper, photography fixative, polyvinyl chloride adhesive tapes, commercial paint and glue remover, acidic detergent, silver polish dip, disinfectants, pesticides, fungicides, phonecard thermocoating, metal anticorrosion agent, stain remover, and manufacture of resin and Neoprene.

Benzothiazoles have uses in greases, cutting fluids, antifreeze, anticorrosives, cements, adhesives, detergents, veterinary products such as tick and flea powders and sprays, fungicides, slimicides, tree spray, photographic film emulsions, pottery molds and releasing fluid, and paints.

Replace Rubber Items with these Alternatives:

Spandex	polyvinyl chloride	wood
silicone	buttons (for elastic)	acrylic
plastic	drawstrings (for elastic)	vinyl
fabric	polyethylene foam	Mylar

NOTE: Any socks or stockings worn with shoes that caused the allergic reaction may have gotten contaminated. Washing may not remove the allergen.

These are FREE of Rubber Accelerators:

Household gloves

- ◆ Best N-DEX NightHawk Defender (6) 800-241-0323
- Allerderm Heavy Duty Vinyl 800-365-6868

Exam gloves

- Ansell Micro-Touch Elite
- Synsation
- Conform NL
- New Touch
- Best N-DEX Free 800-241-0323
- CardinalHealth Esteem Stretchy Synthetic 800-234-8701

Sterile surgical gloves

◆ Ansell DermaPrene Ultra 800-952-9916

Chemical protective gloves

- ◆ 4H/Silvershield <u>www.allerderm.com</u> 800-365-6868 or <u>www.northsafety.com</u> 800-430-4110
- Barrier Chemical Protective <u>www.ansellpro.com</u> 800-800-0444

Condoms

- Trojan Naturalamb
- Durex Avanti polyurethane

Diapers

- Luvs
- Pampers

Underwear—with no elastic waist, leg bands, straps

- Jockey
- Dorlastan
- Spandex (many brands)

Socks—with no elastic component

Shoes—completely leather with non-rubber sole and insole (e.g. cork, felt)

Sports equipment free of Neoprene—Cropper Medical, Ashland, OR; Bauerfiend USA, Witchita, KS; Speedo, Los Angeles, CA; TYR Sport, Huntington, CA; Skyline Northwest, Lake Oswego, OR; Shock Doctor, Plymouth, MN; McKeon Products, Warren, MI; E.A.R. Inc., Boulder, CO; All-Star Sports Equipment, Shirley, MA