WHAT CHEMICALS CAN BE FOUND IN CRIB MATTRESSES/NAP MATS?

Infants and young children can be exposed to high levels of chemical emissions from crib mattresses and nap mats while they sleep. These chemicals include polyvinyl chloride (PVC), phthalates, flame retardants, including brominated/chlorinated/phosphates/polyacrylonitrile-modacrylic/boric acid, pesticides, and volatile organic compounds (VOCs). PVC is often used in covers to make mattresses and nap mats more waterproof and bacteria resistant. Bromine is added to mattresses and nap mats to make them more fire retardant. Traces of pesticides are found in many mattresses and nap mats, especially those that make use of inorganic cotton.

WHY ARE BABIES AND YOUNG CHILDREN SO SUSCEPTIBLE TO MATTRESS/NAP MATS CHEMICALS?

- Babies/Children eat more, drink more and breathe more pound for pound than adults do so there are more opportunities for them to ingest and inhale toxic materials that may be released from mattresses and nap mats.
- A child’s immune and excretory systems are not as effective at removing chemicals from the body as an adults.
- Children spend over 50% of their day sleeping, making them more susceptible to harmful chemicals found in mattresses and nap mats.
Are flame retardants used in crib mattresses/nap mats?

Most crib mattresses and nap mats made of polyurethane foam will contain flame retardants. Manufacturers surround the foam with chemical flame retardants. Many makers of crib mattresses and nap mats also add flame retardants into the surface fabrics or “ticking.” Flame retardants have been linked to many health concerns, such as lower IQ, hyperactivity, fertility issues and cancer. Along with health concerns, research shows that these chemicals might not actually even afford us increased significant fire protection.

What are volatile organic compounds (VOCs)?

VOCs are compounds that easily become vapors or gases. They can be released into the environment from a variety of household products, such as craft supplies, air fresheners, cleaners and furniture. VOCs like toluene can be found in mattresses and nap mats (in the polyurethane foam) and mattress and nap mats covers and are a major health concern. VOCs are most often inhaled or enter the body through contact with skin. Young children are especially vulnerable to negative health effects resulting from exposure to VOCs because of their developing bodies.

How can I choose a safer mattress/nap mat?

- You can choose mattresses and nap mats and covers made of safer materials, such as organic cotton or organic wool.
- Organic cotton is a safer alternative to polyurethane foam in the mattress or nap mat itself. Organic cotton is also used to make mattress and nap mat covers.
- Organic wool is another safe material. It can act as a natural flame retardant, which makes the use of chemicals unnecessary. Organic wool does not release toxicants, so it is safer for infants and children.
- For more information on safer bedding options check out the Made Safe Bedding Report: https://madesafe.org/science/whats-in-products/bedding/
  AND the Zero Toxics Product Registry – this is a new compilation of non-toxic products (www.zerotoxics.com)

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