Dermal exposure and its effects.
A worker’s chemical exposure injury could result in disfigurement and lead to costs of over $112,000*

The costs for one worker exposed to a hazardous chemical causing second degree burns can add up. Potential costs include hospital bills, worker compensation and disability claims.

32 million workers are exposed to hazardous chemical products

(>20% of the U.S. workforce) according to OSHA**

3 million nonfatal injuries in 2012***

More than 1/2 of these cases involved days away from work, job transfer or restriction of duties.

Life-changing impact on workers

The worker must deal with reduced earnings, medical bills, loss of a trade, disfigurement, embarrassment, and an overall lower quality of life.

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*** U.S. Bureau of Labor Statistics
THE RISKS OF NOT WEARING THE RIGHT CHEMICAL PPE

Health impacts from chemically exposed skin can be temporary or permanent, potentially causing acute effects, chronic effects or both.

The ears and surrounding tissue can be severely damaged unless covered by protective apparel with a hood.

Without an extended collar in place, the neck area is susceptible to chemical exposure.

The wrists, forearms, and backs of hands can suffer chemical burns unless integrated/overlapping gloves are worn in conjunction with a protective suit.

Without chemical boots, a chemical suit, and integrated protective socks in place, the ankles and feet are vulnerable to chemical contact.
Make the right choice in PPE to prevent dermal exposure

Determining the right PPE to protect against specific chemicals is critical and challenging for employers. DuPont provides a wide range of protective apparel solutions, including DuPont™ Tyvek® and DuPont™ Tychem®, to address a variety of employee protection needs.

DuPont PPE selection made easy

The DuPont™ SafeSPEC™ online product selector tool is a valuable resource to help employers easily select their PPE garments. The tool displays fabric testing information including breakthrough times for the DuPont protective apparel products. The database is the largest of its kind and contains nearly 2,300 permeation test results.

DuPont™ SafeSPEC™ also offers an app for mobile users, providing this functionality on-the-go.

INDUSTRIES IN WHICH CHEMICAL HAZARDS COMMONLY EXIST

- Agriculture & Food Production
- Manufacturing
- Utilities
- Oil & Gas
- Construction
- Transportation
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Anyone intending to use this information should first verify that the garment selected is suitable for the intended use. In many cases, seams and closures have shorter breakthrough times and higher permeation rates than the fabric. If fabric becomes torn, abraded or punctured, end user should discontinue use of garment to avoid compromising the barrier protection. SINCE CONDITIONS OF USE ARE OUTSIDE OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE AND ASSUME NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION. This information is not intended as a license to operate under or a recommendation to infringe any patent, trademark or technical information of DuPont or others covering any material or its use.

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