Safe and Effective Dermal Decontamination Gel

Tech ID: 25620 / UC Case 2015-116-0

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OTHER INFORMATION

KEYWORDS

Skin protection, Skin, Decontamination, Contamination, Dermal gel, Skin products, Occupational hazards, Chemical warfare agents, Cleaning products

CATEGORIZED AS

- **Medical**
  - Disease: Dermatology

RELATED CASES

2015-116-0

INVENTION NOVELTY

This novel dermal gel formulation is an easy and highly effective method for removing and reducing absorption of skin contaminants.

VALUE PROPOSITION

Current available technologies and products for decontaminating the skin from chemical contaminants have two major problems:

- Low efficiency in removing skin surface contaminants
- Standard water-based decontamination methods, such as soap and water washing, can enhance the skin penetration of the chemical contaminant.

This product overcomes both of these issues, effectively and easily decontamination the surface of the skin, in addition to reducing skin absorption of the chemical and thus reducing systemic exposure.

TECHNOLOGY DESCRIPTION

Researchers at the University of California, San Francisco (UCSF) have developed a polymer–based gel that is capable of extracting the chemicals and nonchemical substances on the skin surface without enhancing the skin penetration of the contaminant like water-based decontamination methods. This gel binds to the skin contaminants and quickly dries into a film that can be peeled off. In addition, this product could be used to remove a variety of chemicals including irritants, contact allergens, environmental and occupational hazards, chemical warfare agents, and skin products.

LOOKING FOR PARTNERS

To develop & commercialize the technology as skin decontamination product

STAGE OF DEVELOPMENT

Preliminary formula made and tested

RELATED MATERIALS

- Not available at this time

DATA AVAILABILITY

Under CDA / NDA

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	11,344,491	05/31/2022	2015-116

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