

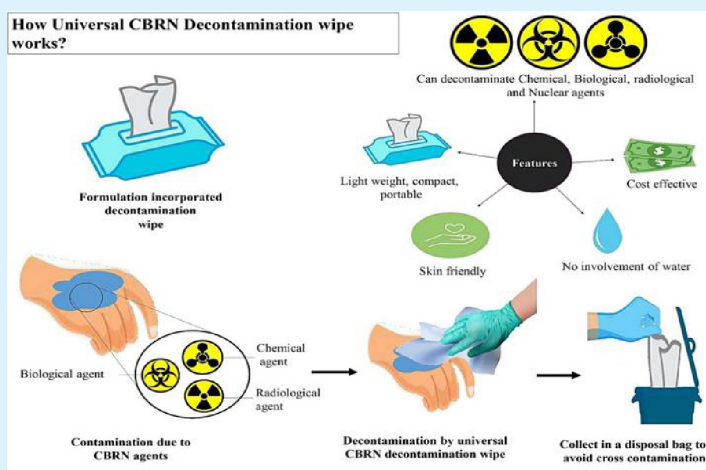
36. Title: Decontamination Wipes

Inventor: Prof. Bhupendra S. Butola, Department of Textile and Fibre Engineering

Key Words: Wipes, Decontamination

Domain: Healthcare (Sanitization)

Invention/Summary: With the emerging threat of Chemical, Biological, Radiological and Nuclear (CBRN) contaminants/warfare agents, a universal skin decontamination wipe has been developed. The wipe comprises of a fabric layer in combination with a formulation having inert non-toxic, non-irritating and skin friendly active ingredients and exhibits promising dermal decontamination property against CBRN contaminants. The wipe has been tested as per OECD guidelines and ICH guidelines. Till now, a single formulation is not available for the CBRN decontamination. The developed product can help in medical management of CBRN emergencies. It can be used in Hospitals, Nuclear Medicine facilities, Nuclear Power plants, Chemical factories dealing with pesticides and harmful corrosive chemicals, national and state disaster management forces for removal of body burden caused by contaminants without water.



Advantages:

- » Highly stable, compact, portable, self-usable and cost effective
- » Bio-compatible and non-toxic to human skin
- » No residue left thus reduces risks of cross contamination within busy healthcare environment
- » No involvement of water and may be comfortably used in cold weather

Applications: Healthcare

Scale of Development: Prototype developed, in vitro studies completed

Technology Readiness Level: 5

IP Status: Indian Patent Application 202011031843